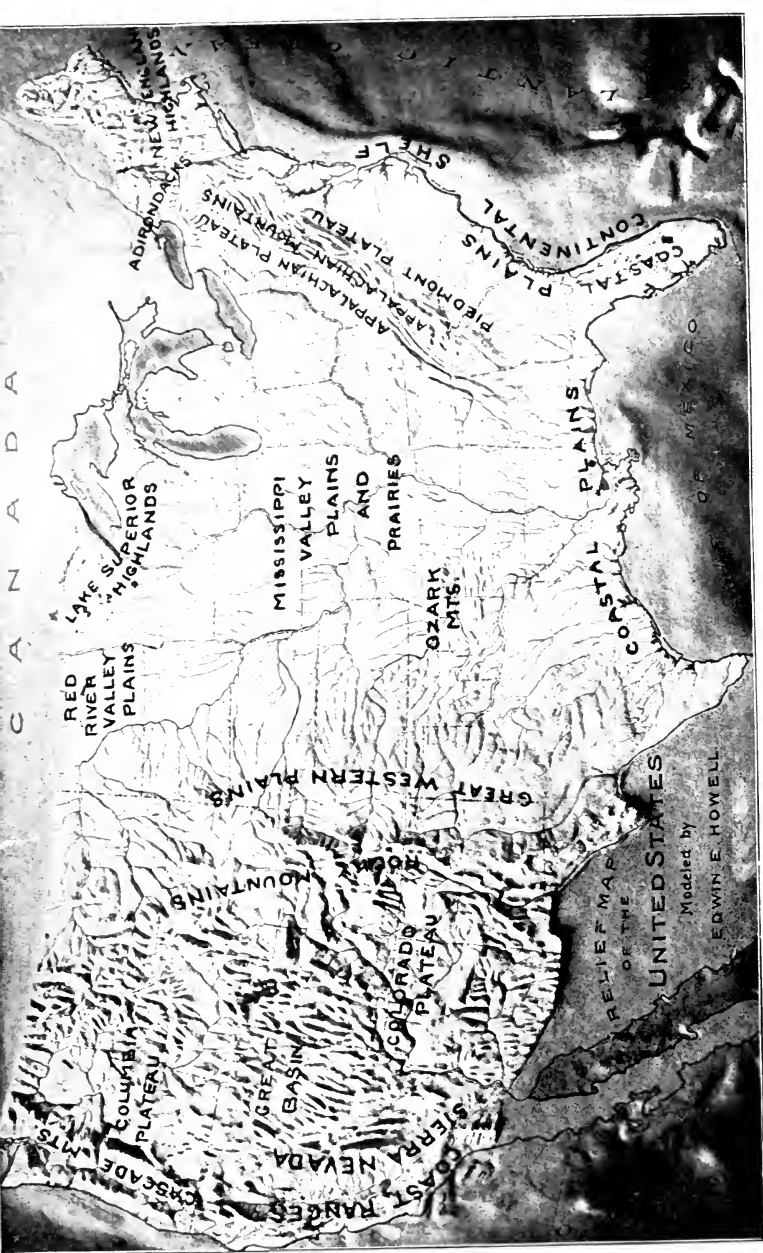




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The Industrial History.

OF THE

United States

FOR HIGH SCHOOLS AND COLLEGES

Old Edition

BY

KATHARINE COMAN, PH.B.

PROFESSOR OF ECONOMICS AND SOCIOLOGY IN
WELLESLEY COLLEGE



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PREFACE

THE history of the United States, more than that of any Old World country, is the record of its physical achievements. The exploitation of virgin territory by a race of extraordinary intelligence, resource, and energy is the essential theme of our national history. Political events and social changes are conditioned on industrial evolution, and the story of America can be comprehended only in the light of her material aspirations and attainments. The advance of agriculture from the pioneer farm to the bonanza ranch, the expansion of manufactures consequent on the substitution of machinery and factory organization for the domestic handicrafts, the service rendered to commerce by steam, the telegraph, electricity,—these are the really potent factors in the history of the United States. The transformation of industrial institutions from indentured servants to the trade union, from the self-employed artisan to the trust, from wild-cat banking to the national bank system, has more significance than the ups and downs of parties or the result of a presidential election.

The record of our industrial progress may be rendered no less intelligible and interesting to the average student than the development of political forms. Business methods are more familiar than military tactics, and a mechanical invention is more readily

comprehended than a constitutional revision. Elaborate treatises have been written on various phases of our economic history. It is the aim of this book to bring the essential elements of that history within the grasp of the average reader. The complicated story has been told in the briefest possible fashion. Marginal references will enable the student to go into detail as fully as may be desired. Contemporary problems are treated in mere outline. The data essential to the study of each have been set forth with no expression of opinion, the best authorities, pro and con, being noted in the margin. Maps and charts and statistical tables are intended, not to duplicate, but to supplement those readily accessible in special treatises and in government publications, such as the United States Census, the Statistical Abstract, etc.

KATHARINE COMAN.

WELLESLEY,

July 25, 1905.

ILLUSTRATIVE READINGS

MANY of the authorities indicated in the marginal references are too technical or detailed for use outside of the college class-room. Such books, moreover, are not available in the usual school or town library. Students of high school grade should be assigned a course of supplementary reading descriptive of the industry most familiar to them or illustrating the economic development of the city or state in which they live. Biography and fiction may serve to rouse interest in the bread and butter aspect of human history and may actualize a difficult industrial problem more effectively than a scientific treatise. Some of the best illustrative readings known to the author are listed below.

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CHURCHILL, WINSTON, *The Crossing.* (Pioneer days in Kentucky.)

DANA, R. H., JR., *Two Years before the Mast.* (The voyage around the Horn.)

FOOTE, MARY HALLOCK, *Cœur d'Alene.* (The silver miners of Idaho.)

GLASGOW, ELLEN, *The Deliverance.* (A tobacco plantation in Virginia.)

KEMP, MATT. STAN., *Boss Tom.* (The anthracite coal miners.)

KINGSLEY, CHARLES, *Westward Ho!* (English buccaneers on the Spanish Main.)

NORRIS, FRANK, *The Octopus.* (The wheat ranches of California.)

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PARKES, ELIZABETH R., *The Magnetic North.* (Gold seekers in Alaska.)

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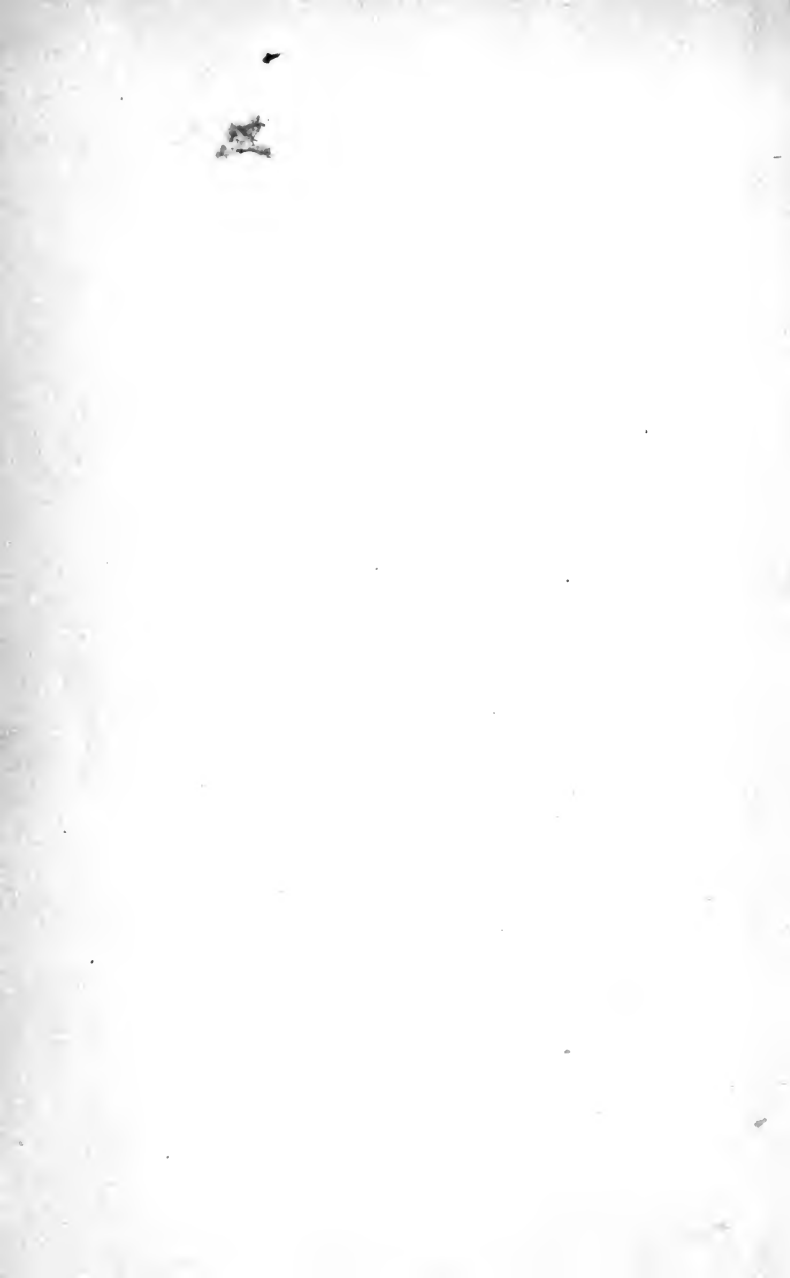
WINTER, ALICE, *A Prize to the Hardy.* (Wheat farmers of the Dakotas.)

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INDUSTRIAL HISTORY OF THE UNITED STATES

CHAPTER I

THE LAND AND THE PEOPLE

The Discovery of the New World

THE explorers of the sixteenth century opened a new world to the industrial enterprise of Europe. The ancient world had centered in the Orient. Political power and commercial influence had rested in turn with Egypt, China, India, Persia, Greece, and Rome. The trade of mediæval Europe had been with the Levant. The Venetian fleet, though it sailed once a year to London and the Baltic ports, never ventured farther into the Atlantic. The westernmost capes were called Finisterre, Land's End, Ultima Thule. The great ocean beyond was known as the Sea of Darkness. Nameless terrors haunted its stormy waters, and merchantmen hardly ventured out of sight of the familiar headlands. After the adoption of the mariner's compass the Western Islands had been rediscovered, and Genoese pilots in the employ of Portugal had braved the thousand miles of stormy sea that lay between Lisbon and the Azores, but no man dared go farther west or south. Only when the Turkish conquest of Constantinople and the eastern Mediterranean gave the customary trade routes into the keeping of a hostile power, did men seek to traverse the Atlantic. Monarchs, such as John II of Portugal, Isabella of Castile, Henry VII of England, sought not a new continent but a new trade route to the Orient—to India, China, and the Spice Islands.

Fiske,
Discovery of
America,
I, Ch. IV.

Yeats,
The Growth
and Vicissitudes of
Commerce,
Pt. II, Ch. IV.

The Eastward Route. — Prince Henry of Portugal, the Navigator, first undertook to find an "outside" route to India. Many expeditions were sent out from Lisbon under the advice of the astronomer prince. They sailed to southward and came upon Porto Santo and Madeira, the Canaries and Cape Verde Islands. Creeping along the coast, the timorous navigators rounded Cape Verde and crossed the dreaded Equator. Finally, in 1487, Bartholomew Diaz circumnavigated Africa as far as the Great Fish River. A mutiny among his sailors forced Diaz to return without traversing the eastern ocean; but ten years later Vasco da Gama sailed on to India. The conquests of the important trading ports followed, and a Portuguese empire was established in the coveted Spice Islands. Bartholomew Columbus, a younger brother of Christopher, accompanied Diaz. It is said that he suggested to the discoverer of America the possibility that a shorter route to the Orient might be found by sailing directly west. Certain it is that Bartholomew submitted this plan to Henry VII in the year succeeding his momentous voyage.

Fiske,
Discovery of
America,
I, Ch. V, VI;
II, Ch. VII.

Yeats,
Pt. II, Ch. V.

The Westward Route. — When Christopher Columbus hit upon the islands of the Caribbean Sea, he thought that they must be on the east coast of Asia. In 1503 Americus Vesputius sailed from the Spanish Main to the thirty-fifth parallel, south latitude. Finding no passage to the westward, he became convinced that this was not Asia nor the Spice Islands, but a new world.

Before this discovery, Pope Alexander VI had declared a division of the newly discovered lands between the exploring monarchs of Spain and Portugal. All the islands lying west of a meridian drawn three hundred and seventy leagues west of the Azores were assigned to Spain; realms discovered to the eastward were to belong to her zealous rival. Ferdinand Magellan, a Portuguese navigator sailing under the auspices of Charles V, set forth to circumnavigate South America and penetrate the unknown sea beyond, hoping to find out a route to the Indies in the region that belonged to his master. With heroic fortitude he and his devoted crew

braved the terrors of an Antarctic winter, threaded the windings of the tortuous strait, crossed the ten thousand miles of pathless Pacific, and finally reached the Ladrones and the Philippines. Magellan came to terms with the king of Cebu, who accepted Christianity and guaranteed to Spain the exclusive privilege of trading with the islands. Thus was founded a Spanish empire in the Orient. This southern route to the Spice Islands was, however, too long and difficult to serve the needs of trade. The search for a more direct passage to the South Sea was then undertaken, and was continued for three centuries. Not until the Northwest Passage was finally proved impracticable did explorers abandon the search. The westward route to the Indies was never found, but the explorers revealed to the astonished gaze of Europe a new world—a virgin continent to conquer, to colonize, to exploit. The imaginations of men were fired by the undreamed-of opportunity, and adventurous spirits gave themselves, body, soul, and fortune, to the prosecution of great enterprises. The people of Europe finally abandoned the Oriental quest and turned to face the Occident. Thereafter riches, honor, power were sought in the Americas. The Atlantic became the highway of trade. Modern commerce centers in western Europe, and the balance of power rests with the nations that possess ports on the Atlantic.

Industrial Resources of America.—Only now, after four hundred years of exploration, are the resources of the New World fully known. Its colossal proportions have been gradually revealed, and a second vast sea, twice the width of the Atlantic, has been explored to its farthest reach. Balboa did, indeed, sight the Pacific; but he surmounted the land barrier at just that point where the eastern and western shores converge to an isthmus but thirty miles across. To north and south of this connecting strip of land stretch great continents. Of the two Americas, the northern has proved to be the richer in natural resources and the more available for colonization. It has the advantage of belonging to the land hemisphere of the globe. North America is one of a

ring of continents gathered about the North Pole. Its Arctic coast line stretches over a span of one hundred and twenty degrees, and only a narrow strait divides Alaska from Siberia. Labrador lies but two thousand miles west of Ireland. Should a New York steamer take the northernmost route, rounding Nova Scotia, passing through the Gulf of St. Lawrence and the Straits of Belle Isle, touching at Greenland, Iceland, and the Shetland Islands, she need never be more than twelve hours out of sight of land. This is the shortest course from America to Europe, but it is not used by trading vessels because icebergs and head winds render it unsafe, and because these subarctic lands offer little traffic. It is, however, the path followed by the first discoverers of America. Vikings from Norway established a colony in Iceland in the ninth century and in Greenland in the tenth. Leif Erickson made his way down the bleak coasts of Labrador to Nova Scotia, possibly to New England, in the year 1000 A.D. So inhospitable were these countries that the Norse adventurers abandoned their westward quest and bent their long keels to the south, to the booty-stocked cities of Normandy, France, and the Mediterranean.

Along the fortieth parallel the Atlantic measures three thousand miles from shore to shore, but, in spite of its greater length, this has become the highway of commerce. Here the trade winds serve, in different seasons, the purposes of eastward and westward traffic, and here, in a latitude where ice offers no obstacle to navigation, lie the best harbors of the American coast, those of Portland, Boston, and New York. Here, too, great estuaries, Long Island Sound, Delaware Bay, and the Chesapeake, enable the largest vessels to sail far inland, and here deep rivers, the Hudson and the Delaware, supplement ocean traffic. This, too, is just the most productive portion of America. In the huge bend of the coast between Cape Cod and Cape Hatteras, soil and climate and mineral resources combine to create the richest *hinterland* of the New World. More important even than this physical endowment is the trade wafted to these shores. North America lies over against the commercial nations of

Europe and thus has direct entry to the best markets of the Old World.

The southern continent juts out into the Atlantic farther than the northern. Cape St. Roque is but one thousand miles west of Cape Verde. Her rivers and harbors are no less serviceable, but South America has the misfortune to face the Dark Continent—the uncivilized African coast. Both North and South America turn their backs on the Pacific. A lofty mountain range runs the length of the western coast from Alaska to the Straits of Magellan, unbroken save at the Isthmus of Panama. Even in Pacific trade the northern continent has the advantage, since it extends forty-five degrees farther west in the fortieth latitude, the latitude of commerce. From San Francisco to Yokohama is but forty-six hundred miles, while from Callao to the Oriental ports is a voyage of eleven thousand miles. North America fronts the commercial opportunities of Asia, while South America stands vis-a-vis to a submerged continent.

The Territory of the United States occupies precisely the most favored portion of this favored continent. We command the best harbors of the Pacific as well as of the Atlantic coast. On the Gulf of Mexico, navigable rivers and excellent harbors further our commerce with subtropic lands. The Great Lakes we share with Canada, but their terminal harbors, those of Duluth, Chicago, and Buffalo, happen to be within our boundaries. Taken in connection with the St. Lawrence and the Mississippi rivers, this chain of seas makes up a system of inland navigation unrivaled in the world. From the head of Lake Superior to the Strait of Belle Isle stretches a water highway twenty-four hundred miles in length. Directly across the Atlantic, three inland seas of far greater proportions trend eastward to Russia and the Orient. A vessel that should sail from Duluth to Poti, the easternmost port on the Black Sea, would traverse more than one third the earth's circumference and might carry goods from the heart of America to the heart of Asia. The headwaters of navigation on the Mississippi may be reached by short portages from the lake ports. This river flows through

a vast valley, unsurpassed for productive capacity, to a sea circumscribed by tropic islands. A most promising opening for reciprocal trade is thus afforded. The area of the United States comprises every variety of soil, climate, and humidity conceivable in the temperate zone. The variations of altitude admit of great diversity of agricultural products. Its mountain ranges contain rich veins of gold, silver, copper, and iron. Its coal deposits are the best in existence and of vast extent. Little of the latent possibilities of this land was revealed to the first explorers. Its industrial resources were dimly guessed by the navigators who skirted its coasts and sent back to their patrons fabulous reports of the spontaneous products there abounding.

The Peopling of North America

The character of the men who undertake to develop the economic possibilities of a country is even more important than the nature and extent of its natural resources. Energy, initiative, industry, are the traits that determine the material achievements of a nation. The most propitious physical endowment can avail little if the inhabitants of the land are so ignorant or so sluggish as to leave its resources unexploited.

The Aborigines of North America, so far as history knows them, were lacking in these essential economic traits. Among the Pueblos of New Mexico and Arizona, as among the Iroquois of the Mohawk Valley, and the Cherokees of the Appalachians, a considerable degree of industrial and social advancement had been attained before the coming of the white man. They cultivated the soil for corn and various vegetables and carried on certain manufactures, such as pottery and cloth, to the point of artistic form and color. A well-organized community life had been evolved ; but in no case was the race endowment sufficient to enable these peoples to hold their own when brought face to face with Europeans. Not even the Aztecs of Old Mexico had passed beyond the barbarous stage of evolution. The famous empire of Montezuma was probably nothing more than a confederacy of pueblos.

Shaler,
Nature and
Man in
America,
Ch. VI.

Fiske,
Discovery of
America,
I, Ch. I.

Roosevelt,
Winning of
the West,
I, Ch. I.

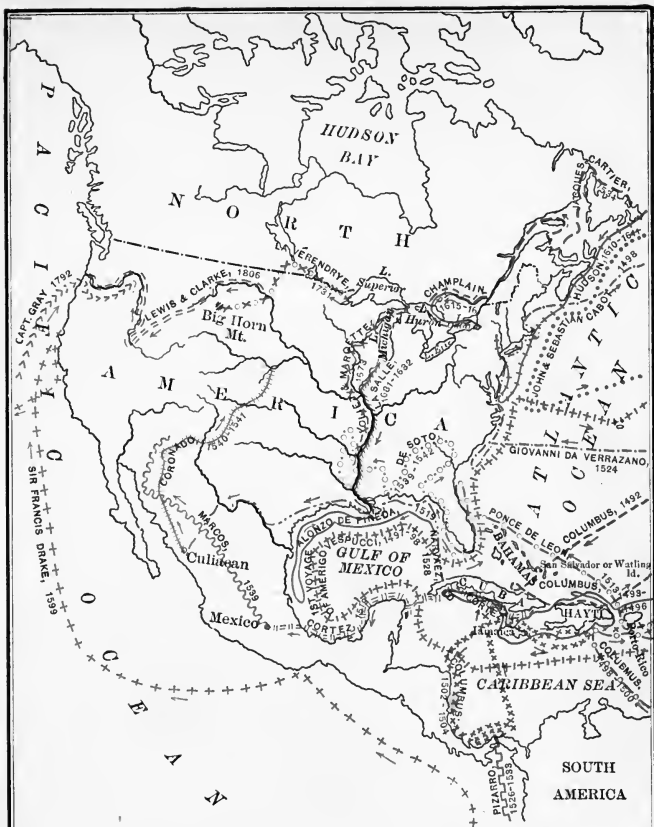
Roosevelt, .
I, 49, 51, 76.

The industrial inefficiency of the aborigines is evident from the fact that in the rich forest region lying between the Atlantic coast and the Mississippi River less than one hundred and fifty thousand Indians found barely sufficient sustenance. The same area now supports fifty-five million whites, every one of whom has an ampler and more constant food supply than any Indian brave could count on.

The occupation of this continent by Europeans meant the immediate substitution of civilization for barbarism and the rapid utilization of hitherto unexploited resources. The energy, initiative, and industry of highly developed races were brought to bear upon a virgin continent. This combination of industrial efficiency with natural resources of extraordinary extent and variety has resulted in economic achievements unparalleled in the world's history.

Spain was the first of the European nations upon the field, and hers was apparently the best chance of success. The Spanish explorers had hit upon precisely the most immediately profitable region of the New World. Columbus, sailing due west from the Canary Islands, came first upon the Bahamas. Later voyages brought him to one and another of the beautiful tropic islands of the Caribbean Sea. These hospitable and fruitful lands furnished an excellent base from which to explore the coasts of the adjoining continent. Americus Vesputius skirted the Gulf of Mexico from Gracias á Dios to a harbor on the Atlantic coast that he described as "the best in the world," possibly the Chesapeake. Twenty years later Cortés set out upon an expedition that resulted in the conquest of Mexico. Guatemala, Honduras, Yucatan, and Nicaragua were soon added to the New World dominions of the king of Spain. After several baffling failures, the Pizarros succeeded in landing an expedition at Tumbez. An astute combination of diplomacy and force gave the "golden kingdom" into their hands. Columbus had found gold on Hispaniola in quantities that promised a rich return. The followers of Cortés had hit upon apparently inexhaustible veins of silver at Potosi and Zacatecas in Mexico; but all previous finds were outdone by the vandals

Fiske,
Discovery of
America,
II, Ch. VIII,
X.



ROUTES OF THE EXPLORERS

SCALE OF MILES
0 200 400 600 800 1000

Columbus

- 1st voyage, 1492-'93
- 2nd voyage, 1493-'96
- 3rd voyage, 1498-1500
- 4th voyage, 1502-1504
- John and Sebastian Cabot, 1497-'98
- + + + + Amerigo Vespucci, 1st voyage, 1497-'98 (?)
- Ponce de Leon, 1513
- || || || || Hernando Cortes, 1519
- Alonzo de Pineda, 1519
- Giovanni da Verrazano, 1524
- Francisco Pizarro, 1526
- Panfilo de Narvaez, 1525

- Jacques Cartier, 1534-'35
- ~ ~ ~ Fray Marcos, 1539
- o o o o Hernando de Soto, 1539-'42
- |||||| Francisco de Coronado, 1540-'41
- + + + Sir Francis Drake, 1579
- + + + Henry Hudson, 1610-'11
- == Samuel de Champlain, 1615-'16
- x - x Joliet and Marquette, 1673
- Robert de La Salle, 1681-'82
- x o x o x Varenne La Verendrye, 1731
- > > > > Capt. Robert Gray, 1792
- = = = Lewis (Meriwether) and Clark (William), 1806



LIBRARY
OF THE
UNIVERSITY
OF
CALIFORNIA

who looted the treasures of the Incas. The ransom of Atahualpa was a roomful of gold vases whose total value is estimated at \$15,000,000. Spanish galleons sailed back across the Atlantic, their holds stuffed with gold and silver, and Spanish sea captains returned home to live in luxury on their ill-won fortunes.

This easily gotten wealth had a demoralizing influence. The energies of Spanish adventurers were absorbed in the quest for gold. No land seemed to them worthy of attention that did not give promise of limitless treasure. The vast regions to the north of the Gulf of Mexico were explored in vain. Ponce de Leon (1513) sought the fabled fountain of youth. D'Ayllon (1526) and Gomez (1525) examined the Atlantic coast from Labrador to Florida in quest of a passage to the Indies less circuitous than that traversed by Magellan. Neither gold mines nor a direct route to the Orient rewarded their toils, and the country looked forbidding to eyes wonted to a tropical vegetation. Peter Martyr, the friend of Columbus, commenting disapprovingly on Gomez' enterprise, wrote: "To the South, to the South for the great and exceeding riches of the Equinoctial: they that seek riches must not go into the cold and frozen North."

Later expeditions into the interior discovered no El Dorado. Pineda had sailed up the Mississippi River (1519) and seen Indians wearing gold ornaments. Narvaez (1525) and De Soto (1539-1542) in turn perished in the pursuit of a kingdom that might be as well worth the plundering as Peru. The survivors of Narvaez' ill-fated expedition forced their way across the plains of Texas, up the Rio Grande, and over the mountains to Culiacan, the northernmost outpost of the Mexican conquest. From Culiacan later adventurers set out to find the seven cities of Cibola and their storied treasures. Fray Marcos (1539) penetrated the interior as far as the Zuñi pueblos of New Mexico. Coronado's expedition (1540-1542) pushed farther north to a fork of the Platte River, but only squalid Indian villages rewarded his heroic endeavor. Thenceforth all attempt to

develop the Spanish dominions north of the thirty-first parallel was abandoned.

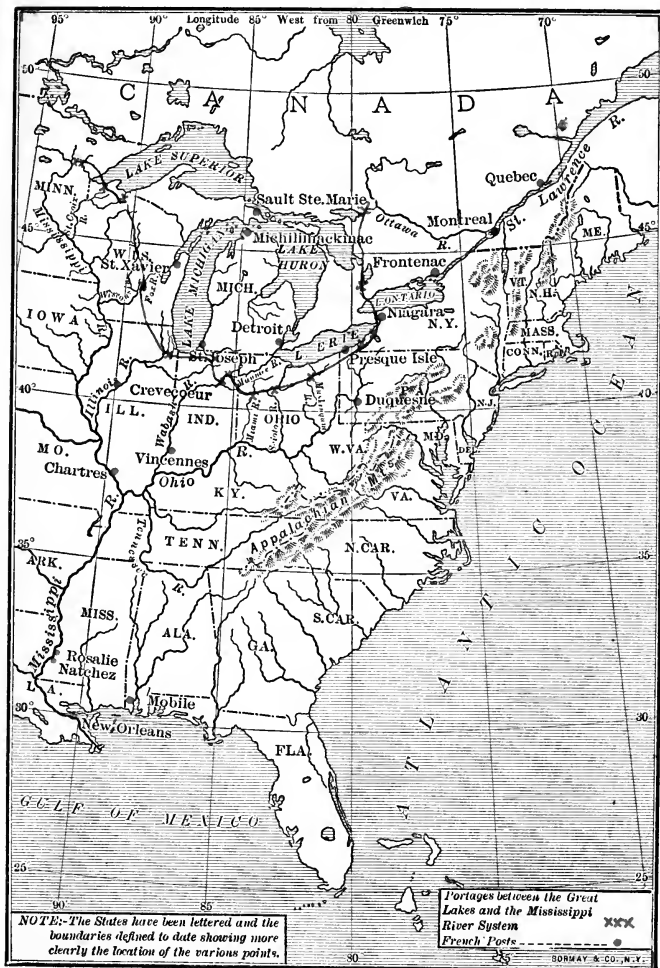
Fiske,
New France
and New
England,
Ch. I-IV.

France.—The papal bull that assumed to divide the New World between Spain and Portugal was challenged by Francis I, the dramatic king of France. It is said that he sent a saucy message to Charles V, asking him by what right he and the king of Portugal had undertaken to monopolize the round earth. The authority of the Holy See weighed but lightly upon sixteenth century Frenchmen, and they determined to have their share in the exploitation of America. They sought their treasure in the sea. As early as 1504 fishing smacks from Brittany and Normandy found their way to the Banks off Newfoundland. By 1578 France had as large a fishing fleet in these waters as Spain and Portugal combined. These sturdy fishermen established the claim to littoral rights on the adjoining shores—a claim that has vexed the souls of diplomats to this day. In 1524 Verrazano, an Italian adventurer in command of a French corsair, explored the Atlantic coast from Cape Fear north to the Gulf of St. Lawrence. Ten years later Jacques Cartier followed up the great river as far as Montreal and founded the claim of France to that section of the New World. The first attempts at settlement were, however, made farther south and well within Spanish territory. The unhappy fate of the Huguenot colonies at Port Royal and Fort Caroline determined the limits of French adventure. Thereafter explorers from France were content to follow the lead of the St. Lawrence. They soon came upon that chain of inland seas, and thus were guided to the heart of the continent. Champlain, who traversed (1615) Lakes Huron and Ontario with an Indian war party, thought he had discovered the Northwest Passage and the long sought route to the Indies. Later adventurers found a more important trade route, the great river that connects the lake region with the Gulf of Mexico. Nicollet (1639) reached the Wisconsin River, though he did not follow its current. In 1673 the trader Joliet and Père Marquette paddled up the Fox and down the Wisconsin to the Mississippi, on to the point where the Arkansas flows in from the west. La Salle finally reached

Dix,
Champlain.

Thwaites,
Father Mar-
quette.

the mouth of the Mississippi (1682) and claimed the vast drainage basin for France. In honor of the Grand Monarque this splendid acquisition was named Louisiana.



THE FRENCH SETTLEMENTS

Neither gold mines nor the Northwest Passage rewarded the zeal of the French explorers. The Indians told of veins of pure copper cropping to the surface near Lake Superior, but mines could not be profitably worked for lack of labor. The natives were good hunters, however, and fortunes might be made in the fur trade. All the energies of the French government were bent toward the development of this promising traffic. Trading posts were established wherever a river or an Indian trail gave access to the hunting grounds. Forts were built at strategic points and missions rose beside them. The Indian tribes were held in check by a diplomatic alternation of bullets and the gospel. The characteristic types in these forest settlements were the soldier, the fur trader, and the priest. The *bateaux* of the *voyageurs* were ever seeking new channels of trade. Making their way up the rivers that flow into the Mississippi, they succeeded in monopolizing the traffic in peltries over the vast forested valley lying between the Alleghanies and the Rocky Mountains. It was a French trader, La Verendrye, who penetrated the wilderness (1731) to the upper Missouri and caught the first glimpse of the western range, the peaks of the Big Horn Mountains, full seventy-five years before the exploring expedition of Lewis and Clark.

Laut,
Pathfinders
of the West.

Semple,
25-31.

The French settlements were determined by considerations of water transportation. Quebec and Montreal gave control of the St. Lawrence; Frontenac, Niagara, Detroit, Michilimackinac and St. Marie guarded the entrances to the Great Lakes; St. Xavier watched beside the first and best trade route to the Mississippi. Fort Duquesne dominated the upper Ohio; Vincennes, the Wabash; Fort Crevecoeur, the Illinois. Traffic on the Mississippi was equally well protected by a series of fortified posts. Mobile (1701) and New Orleans (1718) were founded on the Gulf coast in defiance of Spanish preoccupation.

Thus was outlined a noble empire quite worthy of the ambition of Louis XIV. Infinite courage, devotion, self-sacrifice went into the effort to establish the claim of France to this portion of the New World, but the enterprise ended

in failure and loss. The French domain was forfeited because the French colonies had no lasting industrial basis. French settlements did not strike root because neither soldier, priest, nor *voyageur* had a life interest in the country. When the fur-bearing animals were killed off and the Indian tribes retreated into the interior, the mission trading post dwindled into insignificance. Only along the St. Lawrence, where agricultural colonies were planted, did the French secure a permanent hold upon the region opened up by their explorers. To Sir John Hawkins, who visited Port Royal in 1565 and found the colonists starving in the midst of plenty, the difficulty was evident. "Notwithstanding the great want that the Frenchmen had, the ground doth yield victuals sufficient, if they would have taken pains to get the same; but they being soldiers, desired to live by the sweat of other men's brows."

Docs. Col.
Hist., N.Y.,
III, 396.

Hakluyt's
Voyages,
X, 56.

Great Britain. — England's right to a share in North America rested upon the exploring expeditions sent out by Henry VII. John and Sebastian Cabot (1497-1498) skirted the coast from Cape Breton to Cape Hatteras and laid claim to the territory in the name of the niggardly monarch who financed the expedition. The opening was little prized at the time and not immediately followed up. The region seemed unpromising. No gold mines were discovered, and nature was far less kind than in the tropic islands farther south. There was no lack of adventurous mariners in sixteenth century England, but the nation's energies were absorbed in a life and death struggle with Spain. English sea captains found more honor and profit in sacking the rich towns of the Spanish Main and pillaging the treasure ships on their homeward voyages, than in exploration along the bleak Atlantic coast. Yet credit for the first important discoveries in the north Pacific belongs to England. Sir Francis Drake (1577-1580) sailed through the Straits of Magellan and up the west coast of South America, where he plundered the Spanish galleons on their way home from Peru. Not wishing to risk his booty farther in Spanish waters, he sailed on up the coast of the northern continent

Fiske,
Old Virginia
and Her
Neighbors,
I, Ch. I.

Hakluyt's
Voyages,
XI, 101-132.

Payne,
Voyages of
Elizabethan
Seamen,
First Series,
196-229.

to the forty-third parallel and then across the Pacific and Indian oceans, around the Cape of Good Hope, and so on home to Plymouth harbor.

Drake was the first navigator to "put a girdle around the earth," but he had no thought of colonies. The first attempt to settle the British possessions in America was made by the brave and knightly Sir Humphrey Gilbert. Obtaining the queen's commission he sailed directly across the Atlantic and landed somewhere on Newfoundland in June, 1583. The season was delightful and raised false hopes of success, but winter brought cold and tempests such as these Englishmen had never experienced, and the enterprise was abandoned. On the homeward voyage Gilbert's ship, the *Squirrel*, went down with all on board. His younger half-brother, Sir Walter Raleigh, succeeded to his commission and his task. Raleigh was the son of an English sea captain. While still a student at Oxford he conned with Hakluyt, compiler of "The Voyages and Discoveries of the English Nation," the perplexing maps of the New World and read all the narratives of the explorers then available. Student though he was and courtier, he was a man of action as well. Consumed by the passionate desire to secure for England her due share in the wealth of the New World, he staked fame and fortune, life itself, on the undertaking. Three separate expeditions this great patriot sent out at his own charge. Forty thousand pounds was spent in the endeavor to plant an English colony at Roanoke Island (1585-1589), but a series of misfortunes thwarted the enterprise. On the accession of James I, Raleigh was thrown into the Tower, where he was finally beheaded. His undaunted soul never lost faith in the ultimate realization of his dream. Of Virginia, the land his devoted service had won for England, he said, "I shall yet live to see it an English nation." Though Raleigh's colonies failed and his hope of discovering an El Dorado on the Orinoco came to naught, the explorations undertaken at his expense reënforced England's claim to the territory south of Cape Hatteras and indicated the most favorable location for future endeavor.

Osgood,
American
Colonies,
I, Pt. I, Ch. I.

Winsor,
Narr. and
Crit. Hist.
America,
III, Ch. IV.

The physical conditions of the Atlantic coast were highly favorable to colonization from England. The British possessions lay directly across the sea from Plymouth and the Cinque ports. Throughout the sixteenth century English sea captains had followed the Spanish route and steered south to the Canaries, then due west to the Antilles, and thence north to Cape Fear. Raleigh's costly expeditions had made this circuitous voyage. In 1602 Bartholomew Gosnold, one of Raleigh's associates, ventured to sail straight across the Atlantic and came, happily, upon Massachusetts Bay. This adventure proved that England lay one thousand miles nearer to her American provinces than did Spain to hers. Thereafter the direct route was usually followed. The strip of coast open to British enterprise was, moreover, peculiarly accessible from the sea. A fine series of rivers—the Connecticut, the Hudson, the Delaware, the Susquehanna, the Potomac, the James—take their rise in the Appalachian highlands and, being navigable for small boats well-nigh to their sources, proved as serviceable to explorers and pioneers as so many macadamized roads.

Semple,
Ch. II.

The first successful English settlement, Jamestown, was made on a tributary of the wonderful bay that Raleigh had divined to be an open highway to the wealth of Virginia. The feasibility of an agricultural settlement once demonstrated, others quickly followed. Plymouth colony was planted in 1620, Salem in 1628, Boston in the year following. From 1630 to 1640 no year passed but saw some ship-load of colonists leave Bristol or Plymouth or London bound for America. No harbor or inlet or river in his Majesty's plantations but was explored by these brave home seekers. By 1640 there were twenty-one thousand settlers in New England alone and perhaps half as many more in Virginia. During the next twenty years, the Puritans stayed at home and the Royalists were fain to find a refuge in Virginia. The restored Stuarts forced the migration of another crop of traitors and malcontents. Oglethorpe's colony in Georgia (1753) attracted poor debtors and other unfortunates from Europe as well as from the British Isles.

Fiske,
Old Virginia
and Her
Neighbors,
I, Ch. III.

Scattered along the coast from Pemaquid to Savannah, rarely venturing inland beyond reach of navigable water, divided from the interior of the continent by a discouraging mountain barrier, settlers in the English provinces were forced to make the most of the land within their reach. Geographic conditions favored the formation of compact communities. The lands available for settlement were in a narrow strip of territory rising from the sea to the foothills of the Appalachian range. The northernmost third, since it is largely mountainous, offered the least attraction to colonists. Southward the lowlands broaden to a tract of three hundred miles width. Geologically this lowland is divided between coastal plain and Piedmont plateau. The coastal plain is the ancient sea beach lifted a few feet above the level of the tide. To the north it is represented by detached areas — Cape Cod, Nantucket, Marthas Vineyard, Long Island, New Jersey, and Delaware. To the south it becomes the dominant physical feature. Pine barrens cover its undulating levels. In the river bottoms the original sand and gravel are covered with alluvial deposit. Near the sea the land oozes away into swamp and morass, heavily wooded with cypress and live oak. Along the Jersey and Carolina coasts, bayous and open sounds divide the mainland from a chain of shifting sand dunes that form the outer boundary. The lands of the coastal plain throughout were easily reached and cleared. The Piedmont plateau from Maine to Georgia is rough hill country, heavily forested before the advent of the white man with pine, hemlock, and hard woods. The soil is glacial drift, thinly coated with vegetable mold. The "fall line" that divides the coastal plain from the Piedmont indicates the drop from the foothills to sea level and marks the head of navigable water. Settlers did not penetrate this "back country" till the supply of fertile lowlands was exhausted.

Holland. — Of the maritime countries of Europe, the Dutch were by no means the least enterprising, but their energies were largely absorbed in developing their trade interests in the Orient. The commercial opportunities of

the western continent were brought to the attention of the merchants of Amsterdam by the voyage of Henry Hudson. Commissioned by the Dutch government (1609) to seek out the ever desired Northwest Passage, he came upon a wonderful harbor and a river, up which he sailed one hundred



and fifty miles before coming upon shoal water. The Indians proved friendly and were ready to exchange valuable furs for the merest baubles. A trading ship was immediately fitted out, and in good time she returned with a profitable cargo. A fortified trading post was built on Castle Island just below Albany, another on Manhattan at the mouth of

the river, and a third on the Delaware. In 1621 the West India Company was chartered with full authority to plant colonies in New Netherlands. Monopoly of the commerce with the West Indies, Africa, and the American coast was bestowed. The Company's trading posts gave access to rich hunting grounds, and a brisk commerce in furs developed. Soon an annual harvest of sixty-six thousand skins was sent over to the furriers of fashionable Europe. Other opportunities of wealth were improved by the doughty Dutchmen. The treasure ships of Spain were lawful booty, and slaves bought on the Gold Coast of Africa might be sold in the West Indies for many times their purchase price.

The West India Company grew rich apace, but their colonies did not prosper. There were not enough genuine settlers. The inhabitants of New Amsterdam were mere servants of the Company. The agricultural communities along the Hudson, made up of feudal dependents of the "patroons," were discontented and eager to change masters. Holland's New World possessions were far more promising than England's, not for commerce only, but for agriculture and manufactures as well. The Dutch settlers had a more genial climate and a more fertile soil than their neighbors to the eastward. Their forests furnished the best of timber, and their rivers afforded unexcelled water power; but industry languished when the fruits of labor, the surplus products of field and loom and mill, were claimed by the over-lord to whom the home government had given the land. The fact that the States-General sent them governors and garrisons did not much signify when the opportunity for acquiring land and fortune was withheld. Loyalty waned as men learned how the English villages thrived under freer laws. So it came about that when England, jealous of the commercial ascendancy of Holland, sent a fleet to capture her trading posts in America, there was no serious resistance. The Dutch governor was obliged to surrender New Amsterdam (1664) without firing a gun in its defense. Immediately settlers began to pour in from the English colonies north and south and from over sea. The population of New

Netherlands at the time of the conquest was seventy-five hundred. It had doubled by 1696. The Swedish settlements along the Delaware succumbed as readily to English influence. Thus did Great Britain acquire title to the Atlantic coast from the St. Croix to the St. Marys River.

The Final Victory of the English.—Once rooted in a soil unquestionably their own, the British colonies grew with amazing rapidity. At the close of the seventeenth century there were two hundred and sixty thousand of the king's subjects in America. Fifty years more saw the number rise to one million souls. The first United States census (1790) recorded a population of three million nine hundred and twenty-nine thousand persons of European descent. Fully one fifth of these people spoke some other language than English. Probably not more than half were of Anglo-Saxon blood. There were Dutch communities along the Hudson, German in Pennsylvania, Swedish along the Delaware, Italians and Salzburgers and French in Georgia; Huguenot refugees were numerous in the coast towns, notably Boston, New York, and Charleston; but everywhere the dominant element was of English extraction.

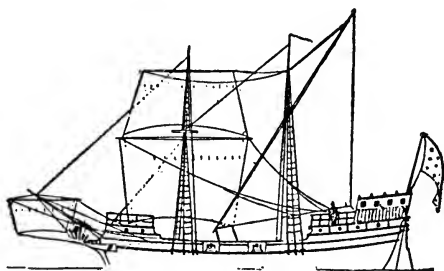
This extraordinary migration was largely due to social and industrial conditions in the British Isles. The religious and political tyranny of the Commonwealth, no less than that of the Stuarts, drove thinking men to seek opportunity to work out their own convictions in a land where there was neither priest nor king. The agricultural revolution consequent on the conversion of tilled lands into sheep pasture, threw thousands of men out of employment. The peasant farmers lost their holdings, the agricultural laborers were no longer needed. Seventeenth century England was a good place to emigrate from. The surplus population turned to the New World, where land was to be had for the asking. Most of the men who crossed the Atlantic in English vessels were not priests, soldiers, trappers, gold seekers, but men bred to the cultivation of the soil. They brought their wives and children with them and purposed to found homes in America. They had sober ideas concerning the necessity

Bancroft,
Hist. of
United
States,
IV, 128-130.

of earning their bread by hard work. The land open to English settlement contained no hoards of gold and silver, but it proved to have sources of wealth no less remunerative in the long run. Fur-bearing animals were abundant. Forests of pine and oak yielded products that brought a good price in Old World markets. The sea teemed with edible fish, oysters, and lobsters. Captain John Smith, who explored the New England coast in 1614 and wrote a rose-colored account of its possibilities, prophesied, and truly, that the cod fisheries of the north Atlantic would profit this country more than the best mines the king of Spain possessed. Soil and climate were suited to the growing of familiar European cereals, and new products, such as maize, potatoes, and tobacco, were destined to become a prolific source of wealth.

Four European nations laid claim to the territory now included in the United States. Each attempted to secure its title by planting colonies and providing for military defense. We have seen how Holland lost New Netherlands through failure to plant free agricultural colonies. France made strenuous effort to hold her New World territory, calling in the Indians to defend her sparsely peopled outposts. In 1763 she was forced to surrender her claim to the eastern half of the Mississippi Valley. In 1803 Louisiana Territory passed into the possession of the United States. Spain had even slighter hold on the lands north of the Gulf of Mexico. No permanent settlements had been made between St. Augustine and Santa Fé. Missions had been built in plenty and the native races were converted to the Catholic church, but not to European civilization. Spanish adventurers had not patience to undertake the development of a region so barren of immediate gain. By a series of treaties the United States has secured this part of Spain's New World empire—the Floridas in 1819, Texas in 1845, New Mexico, Arizona, and California in 1848. The English race, the last upon the scene, with apparently the most unpromising field for colonial enterprise, was destined to occupy the whole land from the

Atlantic to the Pacific, from the Gulf of Mexico to the Great Lakes. Even the islands of the Caribbean Sea, the Isthmus of Panama, and the Spanish Main have finally come under our control. The Oriental empire, discovered by Magellan and maintained by priests and soldiers for near four hundred years, toppled at a blow. Spain has been obliged at last to surrender the Philippines to her vigorous rival.



LA SALLE'S SHIP, "THE GRIFFIN"

CHAPTER II

THE BUSINESS ASPECTS OF COLONIZATION

Contemporary Estimates of the possibilities of the British possessions in America were colored, naturally enough, by Spanish experience. The first explorers sent home exaggerated reports of what they saw and heard. Verrazano asserted that gold, silver, and copper abounded on the Carolina coast. Jacques Cartier gave a no less hopeful account of the St. Lawrence country. Jean Ribault, commandant of the Huguenot colony at Port Royal, observed that the natives wore ornaments made of the precious metals and argued that the mines could not be far away. John Sparke, the chronicler of Hawkins's second voyage, shrewdly suspected that the Indians had filched their gold and silver from the wreck of Spanish treasure ships cast upon this stormy coast. Nevertheless, he believed that back in the interior "where are high hills, may be gold and silver as well as in Mexico because it is all one main."

As the country became better known, soberer opinions prevailed. Men began to realize that the great advantage of the New World possessions lay in the fact that America was a virgin continent where land was to be had in limitless tracts, and where there was no immediate fear of a diminishing return from the soil. In Western Planting, a shrewd estimate of the possibilities of America written by Hakluyt, we find set forth the economic advantage that would accrue to Great Britain from the planting of colonies across the sea. Such enterprises would serve to drain off the surplus population of the mother country. Thousands of able-bodied men, yeomen and artisans, for whom there was no employ-

Hakluyt's
Voyages,
X, 58.

Payne,
First Series,
63.

Fiske,
Old Virginia
and Her
Neighbors,
I, 43-47.

Hakluyt,
A Discourse
of Western
Planting,
Maine Hist.
Society
Collections,
1877.

ment at home, might find in America opportunity to earn an honest living. Such colonies would, also, furnish a new market for English manufactures, which were languishing for lack of purchasers. It was hoped that even the savages would develop a taste for clothes and would thus increase the demand for woollen cloth such as English looms produced in plenty. In exchange for her surplus manufactures, the colonists would send back to England commodities of which the government stood greatly in need for the maintenance of the navy, such as masts and spars, tar and pitch, cordage and iron. Timber and pitch had hitherto been imported from Russia and Poland. The iron had come from Spain, the copper from Sweden. These articles could be had from America at half the price because the supply was limitless, and because in trade with English colonies there could be none of the troublesome exactions suffered in the dominions of the Czar, none of the risks encountered by British traders in hostile Spanish ports. This colonial traffic would give profitable employment to English merchant vessels, forced to lie idle since the Dutch commercial ascendancy, and to English seamen who were hiring themselves to foreigners since they could not find service under the British flag. Whatever revenue was to be derived from tariffs and tonnage duties would, moreover, accrue to his Majesty's treasury.

Hakluyt's
Voyages,
VIII, III.

The Financing of the Colonies

The Chartered Companies.—So evident were these advantages that Parliament was urged to appropriate money for equipping a colonial venture on the ground that it was more honorable that the state should back such an enterprise than surrender it to private monopoly. No state fund was voted, however, and at the request of "certain firm and hearty lovers of colonization," Hakluyt among the number, the king intrusted the undertaking (1606) to two joint stock companies chartered for that purpose. These were the London Company, to which was consigned that

Brown,
Genesis of
the United
States,
I, 36-42, 52-
63; II, 692-
696.

Fiske,
Old Virginia
and Her
Neighbors,
I, 64-72.

Osgood,
I, Pt. I, Ch. I,
II.

Lucas,
Charters of
the Old Eng-
lish Colonies,
9-28.

Brown,
Genesis of
the United
States,
I, 71, 280, 306,
309, 391, 465,
469; II, 555,
558, 581, 685,
688.

part of the coast lying between the thirty-fourth and thirty-fifth parallels, and the Plymouth Company, which received title to all lands from the forty-first parallel north to the forty-fifth. Later charters (1609 and 1612) vested in the incorporators the government of such colonies as they should establish and the monopoly of trade between the colonists and the mother country. The money necessary to fit out a colonial expedition—to transport colonists and provide the food and clothing for their maintenance during the initial years—was secured by sale of stock. Each subscriber received a “bill of adventure,” which entitled him to a share in the profits of the enterprise. It soon became evident that no dividends were forthcoming, but subscriptions were none the less urged on grounds of public expediency. The planting of colonies in America came to be considered a patriotic obligation. The clergy were enjoined to urge it upon their congregations as a Christian duty. Lotteries were opened in this interest. One hundred members of the House of Commons took stock in the London Company, subscribing from £37 10s. to £75 each. The wealthy citizens of Dover and Sandwich contributed liberally to this far-away venture, and, in response to the request of the Lord Mayor, the trade guilds of London opened their coffers and gave £5000 toward the founding of an English colony over-sea.

The sending of colonists to America was undertaken on a purely business basis. The initial expenses were great, but it was hoped that the ultimate profit, to the “adventurers” in the way of dividends, and to the country as a whole by the beneficial effects of colonial trade, would bring full compensation. The capital accumulated by the corporation was invested in supplies—agricultural implements, cattle, sheep, and horses, and food to last the colonists until the first harvest. For a term of from five to seven years the supplies were treated as a common store from which the needs of the “planters”—men, women, and children—were supplied. Each able-bodied man worked according to his capacity at the task assigned him, whether hunting, fishing, plowing, or

at carpentering or smith's work. The products of their labor were turned into the common stock. The first houses put up were used by all in common, and the first boats built belonged to the community. Each colony was expected to send some marketable product to the representatives of the company in England.

At Jamestown, the first enterprise of the London Company, for example, a magazine was erected for housing the common stores and a "cape merchant" was appointed to receive and distribute them. The plan was far from successful, because it did not offer sufficient incentive to labor. Few men will put forth their best endeavors when their needs are met out of a public fund and they realize no advantage from individual effort. The Jamestown colonists shirked their tasks, and, the supplies being soon exhausted, Captain Smith was forced to announce that every man must perform his share of the work or be excluded from the colony. "Every one that gathereth not every day as much as I do, the next day, shall be set beyond the river and forever be banished from the fort, and live there or starve." When this energetic taskmaster returned to England (1609), the fields were neglected and the cattle killed for eating, and the "starving time" came upon the infant colony. But for the timely arrival of Lord Delaware with fresh supplies and adequate authority, the Jamestown settlement would have met the fate of Roanoke. Sir Thomas Dale, who was sent out by the Company in 1611, put matters on a better footing by assigning to each man a piece of garden land for his own use. Thereafter there was no difficulty in inducing the settlers to till the soil on their own account, but the requirement that they should labor one month out of every year for the Company was grudgingly obeyed. So eager were the directors for a money return on their venture that they ordered Captain Newport, when he sailed for Virginia in 1608, to bring back a cargo of products worth £2000 (the cost of this second supply) and intimated that, if profits were not soon realized, the colony would be abandoned, since the discouraged stock-

Fiske,
Old Virginia
and Her
Neighbors,
I, Ch. IV.

Osgood,
I, Pt. I,
Ch. III.

Brown,
Genesis of
the United
States, I,
71, 402-413.

Works of
Capt. John
Smith,
89-174, 497-
543.

holders were withdrawing their pledges. Newport carried with him eight skilled artisans, and these men got together some tar, pitch, glass, and iron ore. These commodities together with clapboards cut by the colonists "for their exercise at leisure times" made up the first return cargo from Virginia.

The colony sent to Sagadahoc on the Kennebec River by the Plymouth Company, in 1606, set out under brilliant auspices. It was planned by Lord John Popham, Chief Justice of England, and officered by his brother, George Popham, and his nephew, Raleigh Gilbert. The rank and file of the settlers, however, were rough, wild fellows picked up in the seaports. They had little ability and less inclination for hard work. The summer season was wasted in exploring expeditions. The friendship of the Indians was forfeited through wanton cruelty. Winter found the colonists unprepared, and they could get neither corn nor furs from the outraged natives. Popham died, and the colony was so reduced by disease and starvation that, when the supply ship arrived in the spring, the men would hear of nothing but immediate return to England. They carried home an evil report of the land where they had suffered so much hardship. The Plymouth Company, disheartened by this costly experiment, planted no more colonies at its own expense.

These failures on the part of the chartered companies are not to be regretted. The English settlements might have been mere trading posts dependent on the good will of a merchant company like the Dutch colonies on the Hudson, but for the fortunate circumstance that the first ventures were unsuccessful and returned no profit on the investment. The stockholders became discouraged, the managers got into trouble with the government, and the charters were withdrawn, that of the London Company in 1624, that of the Council for New England eleven years after.

Associations of Adventurers.— Later colonies were financed by private associations, each of which secured a charter giving title to a definite strip of territory and more

Winsor,
Narr. and
Crit. Hist.
America,
III, 175-177.

Osgood,
I, 34-44.

Osgood,
I, Pt. I, Ch. V.

or less adequate political control of the projected settlements. The first successful settlement within the domain of the Plymouth Company was made by a group of separatists who, finding the England of James I a difficult place to live in, sought to establish a government more to their liking in the New World. The association of seventy London merchants who financed this enterprise subscribed £10 each and made careful provision for a money return. In the articles of agreement between the adventurers and planters of Plymouth it was stipulated that the parties to the contract were to "continue their joint stock and partnership together, the space of seven years, during which time, all profits and benefits that are got by trade . . . or any other means of any person or persons remain still in the common stock." The planters were to labor on the common fields for the common good. It was hoped that a considerable revenue would be realized, if not from actual products, then from the profits of trade. For several years; however, the colony was hardly more than self-sustaining. The Pilgrim Fathers relished, no more than the "vagabond gentlemen" of Virginia, toil that did not result in immediate personal gain. In 1624 the scheme was abandoned, and every man was given one acre of land where he might "set corn for his own particular." Thereafter there was plenty of food. But the adventurers wanted marketable goods, and their exactions proved so annoying to the planters that the agreement was dissolved (1627). The colony undertook to buy up the interests of the stockholders for £18,000 to be paid in yearly installments of £200 each. Certain leading men, Bradford, Winslow, Standish, Brewster and others, became responsible for the fulfillment of this pledge.

In the case of the Massachusetts Bay colony, the adventurers went in person to America, carrying their charter with them, and thus the association became identified with the colony. Every stockholder was entitled to a voice in the management of the company's affairs and attended in person the stockholders' meeting, known as the General Court,

Bradford,
History of
"Plymouth
Plantations,"
162-166, 176-
178.

Brown,
Genesis of the
United States,
I, 33-35.

Osgood,
I, 141-152

Eggleston,
Land System
of N. Eng.
Colonies.

until the increase in the number of settlements necessitated the election of representatives. The charter secured a grant of land extending from the Merrimac River to the Plymouth line and from "sea to sea." Within this territory new colonies were planted from time to time on lands granted free of charge by the General Court. Ipswich, Newbury, Charlestown, Dedham, and the Connecticut River towns, Hadley, Hatfield, and Northampton, were offshoots from the parent colony and followed each in turn the same general plan. The settlers joined forces for the prosecution of undertakings that were too great for individual initiative, such as the clearing of the forest, the cultivation of the first crops, the putting up of houses, barns, fences, saw-mills, grist mills, etc. As soon as practicable each of the proprietors in the common lands was assigned his portion and proceeded to cultivate on his own account. Providence Plantations and the Connecticut towns were also independent ventures financed by the planters themselves. Being under no obligation to pay tribute to a body of adventurers in England, the colonies grew rapidly in population and wealth. By 1700 New England, despite her natural disadvantages, was the most densely settled province in America.

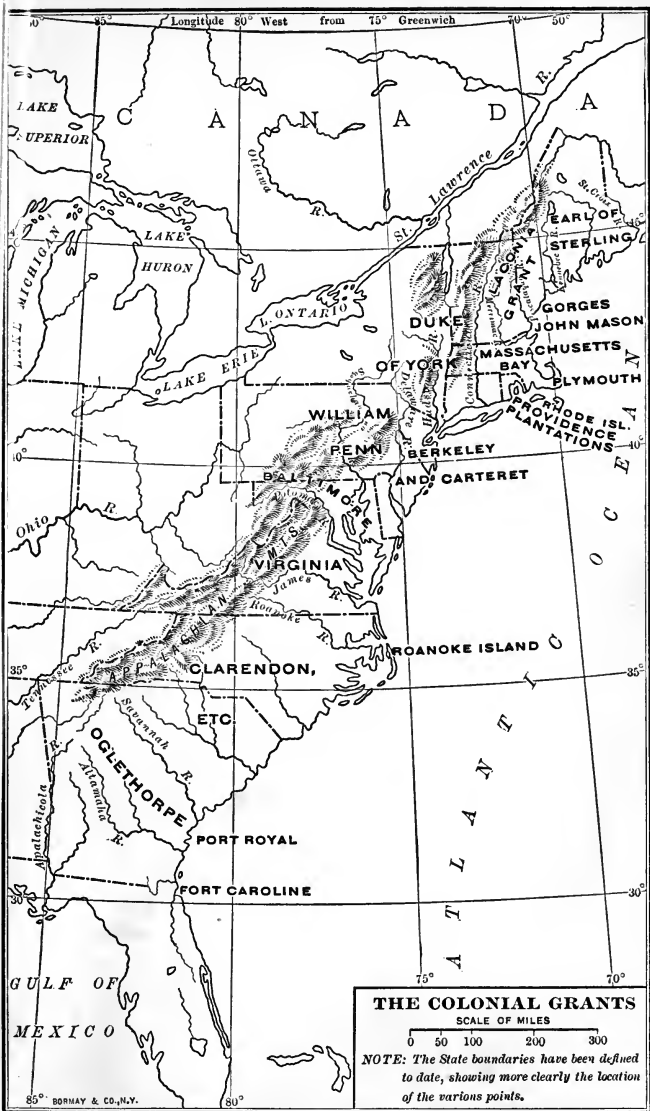
Lucas,
87-123.

Proprietary Grants. — It was not unusual for private persons with sufficient means to secure a grant of land and undertake the planting of a colony as one might set about the cultivation of a distant estate. Such colonial enterprises were feudal in character. The undertaker owned the land and met the expenses of the shiploads of laborers sent out to develop its resources and was, in consequence, entitled to whatever revenues in the way of rents, receipts from mines or from customs duties might accrue.

Osgood,
II, Pt. III,
Ch. I.

Sir Fernando Gorges, a friend of Sir Walter Raleigh and member of the Council for New England, despairing of success through company management, secured, together with John Mason, another member of the Council, the Laconia grant (1623). The Council bestowed upon these gentlemen the exclusive right to plant settlements along the coast

Winsor,
Narr. and
Crit. Hist.
America,
III, 295-310,
326-330, 366,
367.





between the Kennebec and Merrimac rivers and the monopoly of fisheries and trade. A fishing station was established at the mouth of the Piscataqua River, and salt works were there set up. Salt, dried fish, furs secured in trade with the Indians, clapboards and pipestaves, made up the returns from this venture, but the cost of maintaining the colony exceeded the income. The workmen sent out were fishmongers from Billingsgate "hired at extreme rates," a thriftless and lawless crew who lived extravagantly and worked only under compulsion. Gorges soon abandoned the enterprise as unprofitable. In 1629 the grant was divided. Gorges acquired control of the territory between the Piscataqua and the Kennebec and became Lord Proprietor of Maine. Mason secured title to the lands south of the Piscataqua. Neither proprietor did much toward the actual colonization of his territory.

Osgood,
I, Pt. II,
Ch. IX.

In 1623 the first Lord Baltimore, who as member of the London Company had made a futile attempt to found a colony in Virginia, obtained from the king a charter making him sole proprietor of the territory lying between the Potomac River and the fortieth parallel,—lands originally granted to the defunct Company. His son Cecil succeeded to the title that same year and became Lord Proprietor of Maryland. Twenty gentlemen and three hundred laboring men, well stocked with provisions, made the first settlement the following year. Lord Baltimore gave careful attention to the welfare of his colony and expended £20,000 out of his own purse in forwarding supplies. The climate was genial and the soil rich. The cultivators were soon able to send corn to New England in exchange for salt fish, and procured hogs and cattle from Virginia. Religious toleration offset the disadvantages of feudal government in the minds of Roman Catholics, Quakers, and other dissenters for whom there was no place in Old or New England.

Winsor,
Narr. and
Crit. Hist.
America,
III, 517-525.

Fiske,
Old Virginia
and Her
Neighbors,
I, Ch. VII;
II, Ch. XIII.

A batch of proprietaries dates from the Restoration. Charles II was bent on asserting the royal prerogative not only in England but in America as well. The unclaimed territory afforded opportunity for rewarding his friends and

supporters, and he gave out patents with a lavish hand. The coast country south of Virginia to the twenty-ninth parallel was granted to a group of loyal noblemen, the Earl of Clarendon, the Duke of Albemarle, Lord John Berkeley, Sir William Berkeley, Sir John Carteret, and others. These gentlemen with the assistance of John Locke, the philosopher, proceeded to draw up a feudal form of government for the Carolinas while promising liberal terms in the way of lands, trade privileges, and religious freedom to voluntary immigrants. Some persecuted Quakers did indeed move over the Virginia boundary, and enterprising Yankees from Massachusetts came down to prosecute trade, but the government of the proprietors was so tyrannical and inefficient that there was no security for life or property. The Carolinas did not prosper until a stable crown government was established (1729).

Winsor,
Narr. and
Crit. Hist.
America,
V. Ch. V.

Fiske,
Old Virginia
and Her
Neighbors,
II, Ch. XV.

Winsor,
Narr. and
Crit. Hist.
America,
III, 421-424.

In 1664 the shadowy English title to the Hudson River territory was vested in the Duke of York by charter from the king. The fleet sent to besiege New Amsterdam had little difficulty in enforcing the claim, and New Netherlands became New York. Nicolls, the governor sent out to represent the royal proprietor, made inquiry into the laws that had been adopted by the New England colonists and modeled his government thereon. The Dutch settlers were glad to remain under the liberal English rule, and Connecticut farmers came in to take up more fruitful lands on Long Island.

Winsor,
Narr. and
Crit. Hist.
America,
III, 422-449.

The fertile stretch of territory between the Delaware River and the sea, the Duke of York sold to his friends, Lord John Berkeley and Sir George Carteret. Here, as in the Carolinas, the proprietors, lacking funds with which to stock a colony, offered liberal terms to settlers who should meet their own expenses. The vacant land was quickly taken up by English, Dutch, and Swedish farmers.

Fiske,
The Dutch
and Quaker
Colonies,
II, Ch. XII,
XVI.

Very different in origin were the last two proprietorships. In 1683 the unoccupied land west of the Delaware River and between the fortieth and forty-second parallels was granted by the spendthrift Charles II, in satisfaction of an old debt, to William Penn, the Quaker philanthropist. In

this case the proprietor came in person to America. He refused to establish a trade monopoly, considering the prosperity of the colony more important than money gain. "I am day and night spending my life, my time, my money, and am not a sixpence enriched by this greatness. . . . Had I sought greatness, I had stayed at home." Representative government, liberal laws, and full ownership in the soil proved adequate inducements to immigrants. The City of Brotherly Love sprang up at the junction of the Delaware and Schuylkill, a location selected by the wise proprietor as suitable "for health and navigation."


Buell,
William
Penn.

Winsor,
Narr. and
Crit. Hist.
America,
III, 476-495.

Fifty years later the part of Carolina that lies between the Savannah and Altamaha rivers, having been surrendered to the crown by the proprietors, was granted by George I to a group of philanthropists who proposed to give opportunity to prisoners for debt to make a fresh start in life. Oglethorpe and his associates were constituted "trustees for establishing the colony of Georgia" and were made responsible for the conduct of its affairs for a term of twenty-one years. A corporation was organized for the financing of this latest colony, but with no thought of gain. Its stock was subscribed by benevolent individuals, churches, and trade guilds. Parliament appropriated £10,000 toward the humane enterprise. The colonists were brought over at the expense of the corporation and provided for during the initial years until they had secured a firm footing. In 1751 Georgia became a crown province.

Winsor,
Narr. and
Crit. Hist.
America,
V, 361-392.

The success of proprietary colonies varied with the wisdom and zeal of the persons responsible for their management. These experiments, no less than those of the chartered companies, proved that no money return could be expected from American investments and that the economic advantages to be derived from colonies were remote and indirect. All the proprietary rights except those of the Penns and the Calverts had lapsed to the crown before the Revolution, and the government was administered by a royal appointee and an assembly representing the interests of the colonists.



Land Tenure

The prime concern with the founders of a colony, whether chartered company, proprietor, or association of adventurers, was to induce people to migrate to America; for without laborers nothing of commercial value could be produced. The managers of the several colonial enterprises, however aristocratic their original plans, became convinced by actual experiment that it was good policy to put bona fide settlers in immediate possession of the land. Nothing short of actual ownership in the soil sufficed to attract and hold immigrants.

Osgood,
I, 73-79.

In Virginia, for example, the purpose of the Company to retain possession of the land and get it cultivated by laborers or tenants, gave way before the necessity of offering the highest inducement to its effective tillage. Sir Thomas Dale assigned a three-acre garden lot to each of the Company's servants and offered twelve acres of forest land to all newcomers; but the cultivators were mere tenants at will. The House of Burgesses in its first session (1619) demanded that the colonists be put in full possession of these lands, and that every resident shareholder be allotted one hundred acres in fee simple for each share (£12 10s.) he had contributed to the common stock. Associations of adventurers proposing to go in person to Virginia secured grants of land from the London Company until 1624, and, after that "hot-bed of sedition" forfeited its charter and Virginia became a royal province, from the crown direct. Since each stockholder was entitled to one hundred acres in the first "division" and one hundred more when the grant had been "seated," these associations came into possession of great tracts of land. John Martin, one of the first councillors, who organized the company that settled Martin's Hundred on the James River, secured for himself and associates eighty thousand acres. Other grants hardly less extensive were assigned to the planters of Smith's Hundred, Southampton Hundred, Bermuda Hundred, etc.

Bruce,
Economic
Hist. of Virg.,
I, 227, 502-
506.

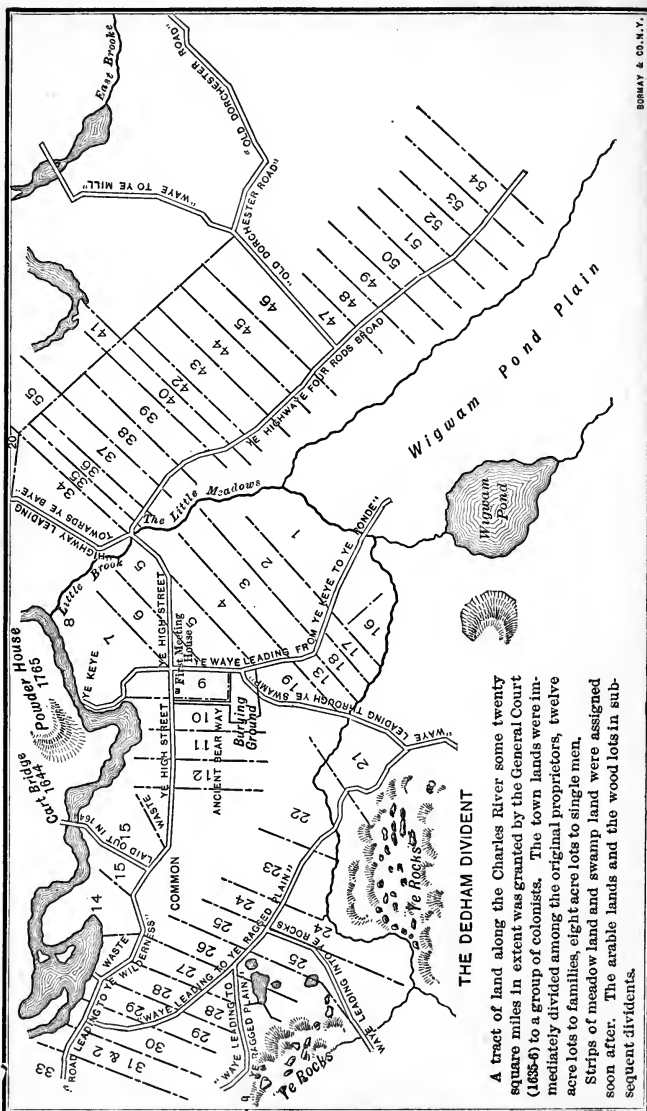
Individual planters might increase their estates by the title known as "head right." Every shareholder who met the cost of importing an able-bodied laborer, man or woman, was entitled to fifty acres in the first division and fifty additional in the second. The right was soon extended to all residents of Virginia and became the usual method of acquiring land. Since the transportation charges amounted to £6, the land came to little more than a shilling an acre. The imported laborer was usually under contract to repay the passage money in service. Thus, by a moderate outlay, the planter secured an estate and the hands with which to till it. The custom was admirably suited to a country where land was abundant and labor scarce, but it was susceptible of abuse. Unscrupulous planters obtained grants in consideration of passage money paid for members of their families or for their own journeys to and from England. The land offices grew corrupt, and soon it was not deemed necessary to bring evidence of passage paid. A small fee handed to the secretary insured the solicited grant with no questions asked. This practice became so general that it was finally (1705) sanctioned by law. A tract of fifty acres might be had by payment of five shillings, on condition that three acres be planted within three years. The result was a significant increase in the size of the holdings. In 1625 a shareholder was entitled to one hundred acres and had expectations of a second hundred. At the close of the century the average size of a Virginia estate was seven hundred acres, and many a planter owned thousands. The king was recognized as the ultimate proprietor of all lands in the Virginia colony. The immediate owners paid a quitrent of a farthing an acre. This was an important source of revenue urgently maintained by the crown officers and as urgently protested by the planters.

Bruce,
1, 512-518.

Bruce,
1, 519.

In striking contrast to the land system of Virginia was that of the New England colonies. The people who put their lives into the planting of Plymouth colony were credited with a share in the venture. Each colonist, whether man, woman, or child, free citizen or servant, was entitled

Bradford,
56-58,
163-166.



to a £10 share of stock, and every shareholder received full possession of twenty acres of land when the first division was made. At Salem each of the original settlers was entitled to a house lot in the village, ten acres of arable land, and rights of pasturage and mowing in the meadows, in proportion to the number of cattle owned. The projectors of the Massachusetts Bay colony agreed that every adventurer who went to the settlement or sent others at his own charge, was to have fifty acres for each passage paid. This provision did not lead to the building up of great estates, as in Virginia, because the arable lands were limited in area and there were always newcomers to provide for. Soil and climate, moreover, were not such as to encourage farming on a large scale. The settlers preferred to live near together. The house lots were usually assigned along a single street with garden ground at the back. The arable, meadow, and wood land was not divided until the community grew strong enough to build fences and to protect distant fields against Indian raids. In all the settlements made under the auspices of the Massachusetts Bay Company this plan was followed, though the size of the allotments varied with the amount of land at the disposal of the town and the number of proprietors among whom it was to be divided. Settlers in Rhode Island, Connecticut, and New Hampshire adopted the Massachusetts model. The planters of New England were everywhere small farmers, dwelling near together in villages or towns, each possessing his land in fee simple, and cultivating it with his own hands. Taxes sufficient to meet local expenses were assessed by the town authorities, but nothing in the nature of quitrent was required by the General Court.

In the royal province of New York, the feudal form of land tenure introduced by the Dutch West India Company influenced later developments. Great estates such as Renns-laervyck persisted under the English rule. Some of the royal governors granted tracts of hundreds of thousands of acres to favored individuals, and feudal properties like Livingston Manor were created. The practice was protested, since it seriously retarded the settlement of the province.

Works of
Capt. John
Smith,
782-784.

Adams,
Village Com-
munities of
Cape Ann
and Salem.

Osgood,
I, Pt. II,
Ch. XI.

Doc. Hist.
N.Y.,
I, 377-389;
III, 622-627.

American
Husbandry,
I, 192, 196,
198, 235;
II, 15-17,
122-123, 190.

Osgood,
II, Pt. III,
Ch. II.

"The grantees themselves are not, nor never were in a capacity to improve such large tracts, and other people will not become their vassals or tenants, for one great reason as people (the better sort especially) leaving their native country, was to avoid the dependence of landlords, and to enjoy lands in fee to descend to their posterity that their children may reap the benefit of their labor and industry." The development of the province was retarded, since immigrants preferred going to New England, where lands might be had in fee simple and without charge. When, by the treaty of Fort Stanwix (1766), the Mohawk Valley was purchased of the Iroquois Confederacy, land offices were opened and farms were made over in fee simple to actual settlers on the easy condition that five acres out of fifty should be cleared within three years.

The several proprietors held their respective territories as so many feudal estates from which they were at liberty to grant, sell, or lease lands as might best suit their purposes. William Penn had in mind an aristocratic form of land tenure. He offered to sell five-thousand-acre tracts for £100, reserving a quitrent of one shilling per hundred acres. Fifty acres were allowed for each servant imported. A tract of five hundred acres was awarded to every man who should transport and "seat" his family at his own charge. Here was abundant opportunity for the acquisition of large estates, but here, as in Massachusetts and New York, physical conditions were not favorable to great plantations. Soil and climate necessitated a varied and intensive agriculture. Large tracts of land were bought by groups of settlers, English, Welsh, or German, and then subdivided among the partners to the purchase. The result was a series of agricultural communities of an especially democratic type.

With a view to attracting settlers, the proprietors of the Jerseys offered to every man who, already equipped with musket and ammunition and six months' provisions, should meet the governor on his arrival (1664), one hundred and fifty acres of land, and a like amount for each servant or slave imported and similarly provided at his own expense.

The allowance for women was seventy-five acres. This offer drew settlers from the adjacent colony of New York. "What man," wrote the Earl of Bellomont, "will be such a fool as to become a base tenant to . . . Mr. Livingston, when for crossing Hudson's river that man can for a song purchase a good freehold in the Jerseys?" The colonial population of New Jersey was almost wholly made up of small farmers and their families.

Docs. Col.
Hist. N.Y.,
IV, 791.

South of Mason and Dixon's line, both physical conditions and the terms on which land was granted tended to develop large estates. The soil lay in vast fertile tracts, and the climate was suited to the cultivation of staple crops, such as wheat, tobacco, rice, and cotton. There was considerable economy in cultivation on a large scale, and the small farmer was at a disadvantage. In the Conditions of Plantations (1636) Lord Baltimore offered each adventurer who should transport five settlers a grant of one thousand acres in perpetuity, subject only to a quitrent of 20s. per year. Adventurers bringing over a greater number of laborers, especially when the men were "artificers, workmen and other useful persons," received larger grants, so that some of these estates amounted to ten or fifteen thousand acres. The intention of the proprietor was to create manors after the mediæval type. Each adventurer sublet his lands to the men whom he brought over, and these, like feudal dependents, paid rent in money or produce and presented themselves at the call of the lord of the manor fully equipped with muskets, powder, and bullets for service against the Indians. Sixty such manors of three thousand acres each were established by 1676. The proprietor also made provision for peasant farmers in freehold grants. To any man who should meet the cost of transporting his family to Maryland, was assigned one hundred acres for himself, his wife, and each servant imported, and fifty acres for each child. Such freemen were to pay rent at the rate of ten pounds of wheat for every fifty acres taken up. In the fertile lowlands the great estate proved so profitable that farmers who took up land on these terms were crowded out.

Wilhelm,
Local Insti-
tutions of
Maryland,
7-38.

In the Great Deed of Grant issued by the proprietors of Carolina (1668) every freeman settling in the country was offered one hundred acres for himself, his wife, each child, and for every man servant imported, and fifty acres for each woman servant, subject to a quitrent charge of half-penny per acre. The philanthropic directors of the Georgia colony assigned to each settler brought over fifty acres of land and tools with which to cultivate it. In both of these colonies the intention of the projectors had been to induce farmers to take up the land in tracts commensurate with their working force. The influence of climate and agricultural conditions were more potent than their carefully devised plans. The government was obliged to concede the Virginia method of acquiring land. Great estates acquired by "head right" became the rule throughout the Southern colonies.

The Colonists

The subduing of the wilderness was no pastime. Strenuous labor was required to fell the trees, plow lands beset with stumps and stones, protect growing crops against weeds and cattle, build houses and barns, cut roads through the forests, and defend the little settlements against hostile Indians. Only men of strength, courage, and industry could succeed.

The fifty spendthrift gentlemen who came to Jamestown with Captain Newport knew nothing of agriculture or of any other useful art. They had no inclination to the prosaic task of providing food and shelter, and were infatuated with the hope of finding some easier road to fortune. There was among them, says Captain John Smith, "no talk, no hope, no work but dig gold, wash gold, refine gold, load gold." Even when the shipload of shining earth sent over to England was declared to be worthless, and the "gold-showing mountains" proved to be hills of common red clay, it was not easy to induce the visionary adventurers to undertake useful employments. This futile experiment proved the necessity of sending out men who were able and

willing to labor with hand or brain. In 1610 the Council in Virginia reported to the London Company that they must have at least a year's provisions supplied them and laborers adequate to this difficult business. None but "honest, sufficient artificers, as carpenters, smiths, coopers, fishermen, brickmen and such like" were desired.

The men who settled Plymouth suffered terribly in their first winter. Half of their number died of cold and scurvy — the major part adult men. When the spring came they set about planting corn, catching fish, and building houses that they might be well provided against the second winter. The Pilgrims were men of the middle and artisan classes, accustomed to work, and, though they knew little of agriculture, they readily adapted themselves to the new conditions. Moreover, they had come to America in no venturesome spirit. Driven from England by religious intolerance, they brought their wives and children and household goods with full determination to build homes in the New World.

In striking contrast to the sober industry of the Pilgrims and their eventual success, showed the braggart thriftlessness of three neighboring settlements. Thomas Weston, one of the merchant adventurers of the Council for New England, equipped a colony on his own account, having secured a patent to lands in Massachusetts Bay. A settlement was attempted at Weymouth (1622), but the men sent over were an "unruly company" who "spent excessively" while the ship's stores lasted and then begged and stole from the Indians until the exasperated savages determined to destroy the camp. The settlement was only saved from annihilation by Miles Standish, who went to Weymouth with his little force, overawed the Indians, and enabled the disheartened rowdies to get away. Weston's colonists had laughed at the straits to which they saw the Pilgrims reduced, handicapped as they were by women and children, and had boasted of their own advantage in being all lusty men. They did not understand how essential to a settlement was the steadying stimulus of the family claim.

Brown,
Genesis of
the United
States,
1, 410, 439.

Bradford,
111, 121, 137,
151, 152.

Osgood,
1, 114-122.
Bradford,
137-151,
154-161.

Bradford,
178-184.

Bradford,
283-292.

White,
The Planter's
Plea.

Bacon's
Works,
VI, 457.

Equally unfortunate was the enterprise of Robert Gorges, who came to Weymouth in the following year. Sir Fernando sent his younger son clothed with great authority. He had received an extensive grant of land and the commission of governor general for all New England. A year's experience of the hardships of pioneer life discouraged this luxurious gentleman. "Not finding the state of things here to answer his quality and condition," says Bradford, he returned to England in disgust. No less disheartening was the attempt of another representative of Sir Fernando, Thomas Morton "of Clifford's Inn, Gent," to found a colony at Mount Wollaston. His people were runaway servants and other ne'er-do-weels who spent their time in drinking and riot to the great annoyance of the men of Plymouth. The merrymakers at Merrymount may not have been so disreputable as the Pilgrims believed, but their practice of selling rum and firearms to the Indians menaced the safety of all the neighboring settlements. Plymouth was besought to send her little army and "prevent the growth of this mischief." Morton was arrested and sent back to England, and his dissolute company was dispersed. John White, the Dorchester clergyman who was laying wise plans for the Massachusetts Bay colony, pointed out that such "rude and ungovernable persons, the very scum of the land, were unfit instruments for the planting of a commonwealth."

Lord Bacon, who was deeply interested in the London Company's experiment, echoed this protest in his *Essay on Plantations* (1625). "It is a shameful and unblessed thing to take the scum of people, and wicked and condemned men, to be the people with whom you plant; and not only so but it spoileth the plantation; for they will ever live like rogues, and not fall to work, but be lazy, and do mischief, and spend victuals, and be quickly weary, and then certify over to their country to the discredit of the plantation. The people wherewith you plant ought to be, gardeners, ploughmen, laborers, smiths, carpenters, joiners, fishermen, fowlers, with some few apothecaries, surgeons, cooks, and bakers."

The Labor Supply

The most serious problem encountered by landowners was the difficulty of securing a sufficient force of laborers. Able-bodied men who would work for hire were scarce in the colonies and wages were consequently high. The attempt to regulate wages in accordance with English precedent failed utterly. The statute passed by the General Court of Massachusetts in 1630 was frequently revised and finally repealed. The natives were lazy, at least in the estimation of the whites, and showed no aptitude for field work. The attempts made to force the Indians to manual labor were unsuccessful. The captives sickened and died. In England, on the other hand, artisans and field laborers were falling into poverty and crime for lack of means to earn an honest living, and the parish officers were eager to rid themselves of the paupers and dissolute persons with whom their jails and workhouses were filled. It was thought a thrifty and benevolent scheme to send this surplus population to America. The London Company undertook to meet half the cost of transportation and maintenance for all children sent them by the parish authorities, on the understanding that they were bound to service from the day of their arrival in Virginia until they came of age. The Company undertook to provide these little servants with food and clothing during their term of service, to teach them some trade, and to assign to each boy, when his freedom year arrived, fifty acres of land to cultivate, a cow, seed corn, tools, and firearms. He then became the Company's tenant, paying one half the produce of his farm for seven years, at the end of which term he was insured full possession of twenty-five acres. One hundred pauper children were sent to Virginia from the city of London in 1619 and one hundred more in 1620.

Weeden,
Econ. Soc.
Hist. of New
Eng.,
I, 98-99.

Brown,
Genesis of
the United
States,
I, 252, 352,
506, 688.

Indentured Servants. — After the collapse of the Company, individual planters began to import servants on similar terms. A written contract or indenture bound master and man to

Bruce,
I, Ch. IX.

the fulfillment of their mutual obligations. The term varied with the age of the servant ; if over twenty-one years of age he was to serve four years, if under twelve, seven. For persons between twelve and twenty the usual term of service was five years. A law enacted in 1666 made the general requirement of five years' service from persons imported at nineteen years or over. Servants under that age were to serve until their twenty-fourth year. Children were preferred to adults because they were usually more teachable, the cost of maintenance was less, and the term of service longer. Hundreds of these unfortunates were indentured by their relatives, or transported by the parish guardians, or kidnapped by the agents of shipmasters, to be bound over on their arrival in Virginia to the planter who offered most for their services. Fourteen or fifteen hundred such children were sent over in 1627. Legislation against the practice seemed futile. In 1680 the English authorities estimated that some ten thousand persons were each year "spirited away" to America by force or fraud.

Of the adults brought over many were criminals whose death sentence had been commuted to a term of service in the plantations. The Council in Virginia early protested against the foisting of felons on that colony, and a law passed the House of Burgesses (1671) and was approved by the governor prohibiting the reception of such persons. Seven years later this law was set aside to give opportunity for the transportation of political offenders. Shiploads of Irish rebels had been sent to America during Cromwell's occupation of Ireland. Cavaliers were transported from England in like manner for their championship of the Stuarts. After the restoration of Charles II, batches of Roundheads were sent to the colonies to be sold into service. Scotchmen involved in the insurrection of 1678 and the English farmers and laborers who joined in Monmouth's rebellion were also transported to America. They were carried to the Barbadoes or to Jamaica or to any coast port where there was good chance of finding a purchaser. The greater number were disposed of in the Southern colonies, where estates were cultivated on

a large scale. Indentured servants were not so much in demand on the little New England farms.

The law did what it could to protect the indentured servant in his rights. If the master failed to provide adequate food and lodging or treated his man with undue harshness, the latter had recourse to the county court. The commissioners were authorized to annul the contract if the master did not make amends. The law required that in case of sickness a physician should be furnished, and if the servant became permanently incapacitated the master must still provide for him till the end of his term; thereafter the parish was responsible. On the other hand, the county officers were bound to assist in the recapture of runaway servants. Men, boats, and horses were impressed for the search until the fugitive was restored to his master. He was then obliged to serve double the time of his unexpired term and to pay the costs of capture. He might be whipped or branded in the cheek if the offense were repeated.

Whatever may be thought of the morals of this labor system, its economic advantages were many. Laborers were transferred from the place where they were not wanted to a place where they were in demand. Their passage money was paid by an employer who was guaranteed against loss by a claim of from five to ten years of service. When the term expired, master and servant presented themselves at the county court and a certificate of emancipation was made out and duly signed. The servant was then presented with ten bushels of grain, two suits of clothes, firearms, etc., sufficient to secure him against want. The emancipated servant could earn good wages as a free laborer or he might acquire land. In Pennsylvania and New Jersey redemptioners were granted fifty acres to cultivate in their own right.

African Slaves.—Toward the close of the seventeenth century the supply of servants from the British Isles fell short, and laborers were provided from another source. A shipload of negroes, captured on the Gold Coast, had been brought to Jamestown by a Dutch trader in 1619 as a business venture. The West India Company sent other ship-

Beverley,
Hist. of Virg.,
Ch. X.

Bruce,
II, Ch. X.

Geiser,
Redemption-
ers and
Indentured
Servants in
Pennsyl-
vania.

Bruce,
II, Ch. XI.

Weeden,
II, Ch. XII.

loads from time to time, but they found their best market in the West Indies. There were only three hundred Africans in Virginia in 1650 and but two thousand in 1671. An English commercial corporation—the Royal African Company—chartered in 1662, was given (1687) exclusive monopoly of trade between the Gold Coast and the British colonies. Under the auspices of the Duke of York, the commerce in slaves was encouraged and great numbers were sent to the Atlantic coast for sale.

The Africans came direct from barbarism, but they proved tractable and were physically better adapted to field labor in a hot climate than the servants imported from the British Isles. It was soon apparent that the slave was a more economical investment than the indentured servant. The initial cost was greater. The passage money paid to secure a servant amounted to from £6 to £10, while the price of a slave varied from £10 to £50; but the servant was bound for a limited term, while the slave was bound for life. His children, moreover, became the property of his master. The slave was fed and clothed more cheaply than the servant, for there was no contract, and the slave had no standing in the courts against his master. The African had less skill and intelligence than the white servant, but high grade labor was not necessary for extensive agriculture.

Slaves were bought and sold all along the Atlantic coast. They were less in demand in the Northern colonies where more intelligent labor was required and where the climate was too severe for men and women fresh from tropic Africa. In 1721, when the slave trade was at its height, there were few blacks in New England. In New York the number was seven thousand, or one seventh of the total population. In Pennsylvania the slave population made up one thirteenth of the total. In Maryland it was nearly half, in Virginia more than half, in North Carolina one third, while in South Carolina the blacks outnumbered the whites in the ratio of four to three. The benevolent projectors of the Georgia colony forbade the holding of slaves, but their intentions were overruled by the planters, who asserted that the hot

and malarial coast country could not be cultivated by Europeans. George Whitefield, the eminent evangelist, supported their petition on the ground that slavery was the best means to raise the Africans from barbarism to civilization. The blacks did, indeed, learn the English language and adopt the Christian religion, and they were trained to useful labor; but the influence of the system was none the less demoralizing for owner and slave. The social dangers involved in bringing thousands of untutored savages of a wholly alien race to work in gangs under hired overseers, were very grave. A serious slave insurrection broke out in South Carolina (1721), and the Board of Trade urged the governor to devise some law for encouraging the importation of white servants.

Winsor,
Narr. and
Crit. Hist.
America,
V, 376, 387-
388.

Docs. Col.
Hist. N.Y.,
V, 610.

The Scarcity of Money

Once "seated" upon the land it was not difficult for an industrious community to provide shelter and food and coarse clothing, but all luxuries and many of the necessities, such as iron implements and other manufactures, must be imported from across the water. To pay for such commodities was difficult. Fortunate was the colony for whose products there was a market in England. Gold and silver coin was always acceptable to foreign creditors, but of this there was little in circulation. The specie brought over by incoming colonists was soon returned in payment of debts, and there was as yet no mining of the precious metals. The main source of supply was the Spanish colonies, notably the West Indies, whence silver might be had in exchange for lumber and salt fish. Several of the colonial governments established mints in the hope of providing a specie currency. For thirty-six years (1652-1688) Massachusetts coined the "pine-tree" shillings. They contained but seventy-eight per cent of the silver required in an English shilling, but even this depreciated coin was exported.

Bullock,
Monetary
Hist. U.S.,
Pt. I, Ch. III.

Sumner,
Hist. Am.
Currency,
II-14.

Eggleston,
Commerce
in the
Colonies.

For the purpose of local traffic certain staple commodities were used as the medium of exchange, — corn, cattle, and beaver skins in the northern colonies, tobacco in Virginia

and Maryland, rice and hides in the Carolinas and in Georgia, bullets along the frontier. The several colonial governments authorized the practice and undertook to fix the specie value of these commodity moneys. The General Court of Massachusetts (1640) set the value of Indian corn at four shillings a bushel, that of rye at five shillings, that of wheat at six. In Virginia warehouses were established for the storing of tobacco, and certificates of deposit were issued that served the purposes of local trade. The value of tobacco fluctuated from year to year. The government attempted to limit production and, failing this, was forced to buy up and burn an extra heavy crop in order that the surplus might not depress prices unduly.

The colonists found the natives using a shell money called wampum, and this admirably served the purposes of Indian trade. So long as wampum might be exchanged for beaver skins, it passed as money among the whites, and it was used throughout the seventeenth century all along the Atlantic coast. The disappearance of the Indian tribes destroyed its purchasing power.



PENN'S WAMPUM BELT

Ripley,
Financial
Hist. of Virg.,
145-153.

Bradford,
281-283.

Bullock,
Pt. I, Ch. II.

CHAPTER III

INDUSTRIAL DEVELOPMENT UNDER BRITISH CONTROL

Agriculture

THE men who came to the English colonies, whether gentlemen or paupers, proprietors or indentured servants, were under the common necessity of providing themselves with food, clothing, and shelter. The first settlers were everywhere farmers, since the necessities of life must be had from the soil. How easily an able-bodied, intelligent man could make a living in America, we are told by a contemporary observer. "It is common to see men demand and have grants of land who have no substance to fix themselves further than cash for the fees of taking up the land ; a gun, some powder and shot, a few tools, and a plough ; they maintain themselves the first year, like Indians, with their guns, and nets ; and afterwards by the same means with the assistance of their lands ; the labour of their farms they perform themselves, even to being their own carpenters and smiths ; by this means, people who may be said to have no fortunes, are enabled to live, and in a few years to maintain themselves and families comfortably." . . . "The progress of their work is this ; they fix upon the spot where they intend to build the house, and before they begin it, get ready a field for an orchard, planting it immediately with apples chiefly, and some pears, cherries and peaches. This they secure by an enclosure, then they plant a piece for the garden ; and as soon as these works are done, they begin their house : some are built by the countrymen without any assistance, but these are generally very bad hovels ;

American
Husbandry,
I, 122,
190-191.

the common way is to agree with a carpenter and mason for so many days work, and the countryman to serve them as a labourer, which, with a few irons and other articles he cannot make, is the whole expense: many a house is built for less than £20. As soon as this work is over, which may be in a month or six weeks, he falls to work on a field of corn, doing all the hand labour of it, and, from not being able to buy horses, pays a neighbour for ploughing it; perhaps he may be worth only a calf or two and a couple of young colts, bought for cheapness; and he struggles with difficulties till these are grown; but when he has horses to work, and cows that give milk and calves, he is then made, and in the road to plenty. It is surprising with how small a sum of money they will venture upon this course of settling; and it proves at the first mention how population must increase in a country where there are such means of a poor man's supporting his family: and in which, the larger the family, the easier is his undertaking."

Money profit in such farming there was none unless the land was situated on a river by means of which the surplus products might be shipped to market. A farmer usually produced everything needed for the comfort of his family. Grain grown on the cleared land was ground at a gristmill built of the felled trees and run by water power or wind. Cattle and hogs ranged the woodland and furnished meat, to be eaten fresh or salted down in pickle. Hides were tanned and made up into shoes on the place, and the women of the house spun and wove into warm, durable cloth the wool cut from the sheep that grazed the hill pastures. Flax was grown in sufficient quantity to provide the lighter clothing. Nothing need be purchased but salt and sugar, tea and coffee, millstones, and implements of iron. Under such conditions every enterprising man might acquire property, even though he came into the country as an indentured servant. His term of service at an end, the bondman became a free laborer, and, since wages were high, he quickly accumulated enough money to secure title to a tract of land.

The mother country offered no such opportunity to her sons. There wages were low and rents high, and the cost of living great. Not the utmost diligence and thrift could put a poor man in possession of an acre of ground. Small wonder then that the unemployed laborers and disinherited yeomen crowded the ships bound for America and besieged the land offices for title to a share in the wilderness.

The New England Colonies.—We have seen with what difficulty Englishmen adapted themselves to the severe climate of New England. The winters were bitter beyond anything they had known, and the sudden changes of temperature proved trying to constitutions accustomed to equable island weather. Granite rock and glacial drift made an unpromising combination to farmers accustomed to the fertile fields of Old England. The soil was sterile except in the valleys, and the summers too short for ripening English grains. Nevertheless the colonists who secured grants in this inhospitable region managed to support their families and eventually to accumulate wealth. Maize was successfully grown in the coast districts and was from the first the staple breadstuff. The friendly Squanto taught the men of Plymouth how to plant the Indian grain and how to fertilize the soil with fish, one in each hill. Within a few years the Pilgrims were selling corn and salt pork to the fishing stations up and down the coast. Vegetables, too, flourished in the brief, hot summers. Apples and cherries and the hardier fruits did well. The cattle brought over from England at great cost found pasture on the cleared land, but it was necessary to house and feed them through the three or four months when the ground was covered with snow. The forests afforded excellent timber, — oaks for the hulls of ships, spruce unexcelled for masts, pine, maple, and chestnut for the building of houses and barns and mills. There was plenty of game, and fish were abundant. Where everything was to be had for the asking, men grew improvident of nature's gifts. The woods were cleared with a wasteful zeal that took no thought of the future. The soil planted to corn was soon drained of its fertility.

American
Husbandry,
I, 45-93.

Bradford,
121.

The fur-bearing animals disappeared with the forests. The products of field and woodland would have supported but a sparse population, but New England had other sources of wealth.

Weeden,
I, 90, 129-132,
135-140.

At the headwaters of the Connecticut and the Merrimac, the Kennebec and Penobscot, the beavers built their dams. Their pelts brought from twenty to twenty-five shillings a pound, and trapping was a lucrative occupation. Plymouth colony sent to London in the five years, 1631 to 1636, £10,000 worth of beaver. The skins of the otter and the black fox were hardly less valuable. Every year Boston sent a vessel to Sable Island which came back loaded with the much prized skins of the black fox together with seal oil and sea lion's teeth. The Indians were the most successful trappers, and the bulk of the furs was secured from them in exchange for food, blankets, and ammunition. New England's share in this profitable trade was forfeited with King Philip's war (1685).

Bradford,
412-413.

Weeden,
I, 132-135.

Pitkin,
Statistical
View of U.S.,
37-43.

The men of the coast towns found a mine of surpassing richness in the sea. Fishing was a profitable industry from the start. Cod of exceptional size and flavor were caught in Massachusetts Bay, and the fishermen of Marblehead and Salem sent shiploads of dried fish to the West Indies and to the Catholic countries of Europe. In 1641 three hundred thousand cod were sent to foreign markets. When the near-shore fishing grounds were exhausted, the enterprising Yankees ventured out to sea and were rewarded by larger catches.

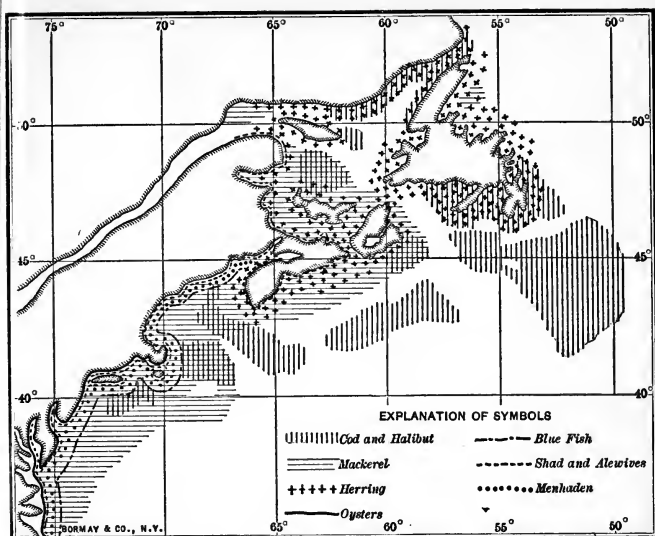
Bishop,
Hist. of Am.
Manufac-
tures,
I, Ch. XIII.

The fisheries created a demand for salt which was readily supplied by evaporating sea water. Salt works were set up at Piscataqua in 1623 and at Beverley in 1638. Along the shores of Cape Cod as well, salt vats were a considerable source of revenue.

Weeden,
I, Ch. XI.

Marvin, Am.
Merchant
Marine,
Ch. VIII.

The right or fin whale was abundant off the New England coast throughout the first hundred years of colonial history and furnished products of great importance in the markets of the time, whale bones and whale oil. The carcass of one of these huge creatures was valued at £16. At first men



FISHING BANKS FROM THE GULF OF ST. LAWRENCE TO THE CHESAPEAKE

were content to save the blubber from the bodies that drifted ashore. Soon, however, they began to put out to sea in boats and harpoon the animal when he came up to breathe. Toward the close of the seventeenth century the fishermen of Nantucket took up this hazardous industry and developed a high degree of skill. A tradition of 1690 has it that a prophetic Islander, as he watched the whales spouting in the Sound, exclaimed, "There is a green pasture where our children's children will go for bread." The season's profits were shared by masters and men, so that every man aboard, from the captain to the cabin boy, was directly interested in the success of the voyage.

As the whales were driven offshore, these hardy sailors followed them out into the deep sea. Spermaceti was worth its weight in silver, while sperm oil, ivory, and ambergris were in great demand. Pursuit of their mighty prey led the whalers to Arctic latitudes,—Davis Strait, Behring

Abbot,
Am. Ships
and Sailors,
Ch. IV.

Pitkin,
Statistical
View of U. S.,
43-47.

Strait, and the Antarctic Sea. Whaling vessels were built to be stanch rather than swift or beautiful, and could live in the roughest weather. They were manned by sailors famed the world over for skill and daring. New Bedford, Marblehead, and Provincetown vied with Nantucket in prowess and profits. Boston was the center for the export trade.

Kalm,
I, 234-272;
II, 223-260.

American
Husbandry,
I, 94-125.

New York. — The climate of this region is similar to that of New England except in the lake district, where the temperature is milder and more equable. West of the Hudson the granite ranges of New England are superseded by limestone hills. The soil of the greater part of New York is, in consequence, far more fertile. Wheat as well as corn can be grown in the valleys, and in the neighborhood of the lakes grapevines and peach trees flourish. The colonists secured abundant crops without the aid of fish or clam shells. Noble forests repaid in timber more than the cost of clearing the land. Sawmills were set up on every stream, and logs were floated down the Mohawk to Albany and thence down the Hudson to the sea. Every farmer's family lived in comfort and careless plenty. Wages were high, even for field labor, and a man might readily save money enough to secure a farm. Once in possession of land, he was able to feed his family, and yet sell something in the neighboring town. The surplus products sent to market in exchange for the necessities not produced at home were wheat and wheat flour, corn, potatoes, and barley. From this last the brewers of New York made an excellent beer.

American
Husbandry,
I, 115-123.

Docs. Col.
Hist. of N.Y.,
V, 726-733.

The Champlain country was a famous trapping ground for beaver and other fur-bearing animals. The St. Lawrence and the Great Lakes gave access to remote and unexplored tracts of forest country and to Indian tribes eager to exchange peltries for trinkets, rum, and firearms. When this traffic was at its height, forty thousand skins were annually exported to England. The trade declined toward the end of the seventeenth century. The export of 1699 amounted to but fifteen thousand skins.

The Middle Colonies.—The territory most congenial to Englishmen by reason of physical endowment lies between the thirty-ninth and the forty-second parallels. Southern New York, Pennsylvania, New Jersey, and Delaware, although ten degrees south of Great Britain, have a climate quite similar. The virgin soil, even under superficial tillage, yielded crops of wheat and barley, oats and rye, greater than the English farmer could produce with scientific fertilization and rotation of crops. Peach trees, a hothouse plant in England, bore so heavily on the sandy plains of New Jersey and Delaware that the fruit lay wasting on the ground or was fed to hogs. Cattle and sheep thrive on the rich native grasses without need for housing or feeding through the winter. Timber in great variety was to be had on the slopes of the Alleghanies, and the Highlands of East Jersey contained rich mineral deposits.

Great estates were rare. The fertile area was parceled out in small farms, and the settlers, whether Dutch, Swedish, or English, lived in plain but ample comfort. Indentured servants were far more frequent than in the colonies to north or south. It was quite usual for a man of no substance to mortgage his labor for the cost of transportation. Foreigners, notably Germans, preferred this means of getting to America, since it insured them employment for a term of years and opportunity to learn the language. Slaves, too, were not uncommon. The country was better suited to the African physique than the more Northern colonies.

The Southern Colonies.—South of Delaware Bay climate, soil, and products were new to men born in the British Isles. The summer season was longer and far hotter, and the lowlands were malarial. The principal products, tobacco, rice, and indigo, belong to a sub-tropic clime. The settlers at Jamestown attempted to grow wheat, but soon discovered that though the plant shot up to an amazing height in the deep, black soil, the kernels did not harden into grain. Maize planted under the direction of the Indians brought in a heavy harvest. Seven summers after the landing there were five hundred acres in corn.

American Husbandry, I, 132-215.

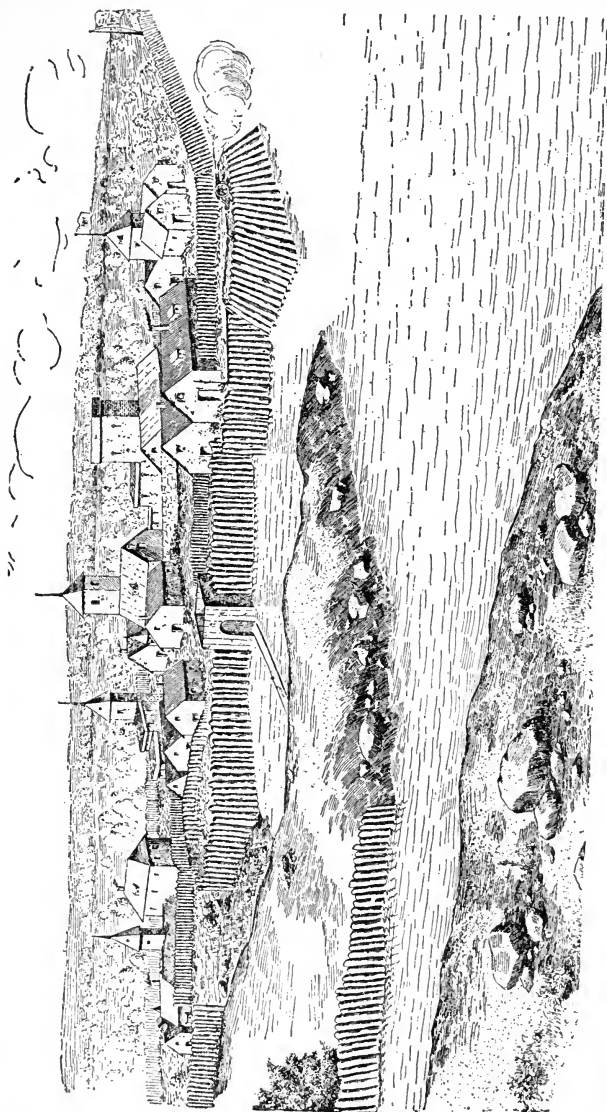
Kalm, I, 27-145, 184-194, 220-233, 340-359; II, 109-114, 188-195.

Bolles, Pennsylvania, II, Ch. XIII.

American Husbandry, I, 152-153, 169-170, 185-192, 207-209, 213-215, 426-431; II, 17, 19.

American Husbandry, I, 216-248, 256-277, 330-390, 414-435.

Bruce, I, Ch. IV, V.



JAMESTOWN IN 1622

From a contemporary Dutch print.

In 1612, John Rolfe, the husband of Pocahontas, raised a crop of tobacco. It soon proved to be the most profitable article to export, and the settlers began to cultivate the nicotine plant to the detriment of food products. Governor Dale decreed that no man should plant tobacco until he had at least two acres in grain. The Company urged the cultivation of flax, cotton, indigo, grapevines, mulberry trees, and silkworms, commodities that they thought more advantageous to the mother country; but their arguments were ridiculed by the planters, who persisted in growing the more profitable crop. Flax and raw silk require continuous care and highly intelligent labor to be had only for high wages. There was no foreign market for maize. Wheat brought but 2s. 6d. per bushel in England, while tobacco sold for 3s. a pound. The freight to London was £3 per ton. Since wheat weighs sixty pounds per bushel and tobacco but forty pounds, the cost of transportation was much greater for wheat. In 1619 twenty thousand pounds of tobacco were exported from Virginia, in 1620 forty thousand, and in 1622 sixty thousand pounds. So given over to the cultivation of tobacco were the planters that they traded their firearms to the Indians in exchange for food. The Indian massacre of 1623 was the result of this foolhardy policy. In the year following, the colony being threatened by a bread famine, the government required that a public granary be established in every parish, where each adult male must deposit a bushel of grain after the harvest. Legislation availed little, however. Every planter followed the course that meant immediate money advantage. Only when the price of tobacco declined, or his land, drained of fertility by this most exhausting of crops, would no longer bring in a profitable return, did he undertake the growing of corn and wheat.

James I had opposed the cultivation of tobacco on moral grounds, declaring that it tended to "a general and new corruption both of men's bodies and manners." He forbade it to be grown in England, and restricted the importation to fifty-five thousand pounds a year. Neither this nor later

restrictive decrees were of any avail. In the first decade of the eighteenth century the colonies exported twenty-one million pounds a year, and that figure was doubled by 1750. A clear hundred-million mark was reached before the close of the eighteenth century. Half the tobacco exported from the colonies was grown in tide-water Virginia.

The cultivation of tobacco has profoundly influenced the economic organization of Virginia. The characteristic agricultural unit was the plantation of from one to fifty thousand acres. For the better part of the seventeenth century, the fields were tilled by indentured servants. As the money advantage of slave labor came to be realized, tobacco was cultivated by imported Africans. It was a tillage that did not require a high degree of intelligence. Ignorant slaves under the supervision of overseers plowed and planted and hoed the vast fields of rich loam and, when the plant had come to maturity, cut and carried the leaves to the dry house. Great estates that originally cost nothing but the land-office fees brought their owners from £20,000 to £80,000 a year. The ordinary planter could count on an income of from £3000 to £6000. Estates of less than one thousand acres could not be worked to advantage by slave labor. It was estimated that one slave could till fifty acres and that one overseer could manage twenty slaves. Variations from this economic ratio involved loss. Indeed it was usual to estimate the value of a plantation in hands rather than in acres. Each slave was expected to produce £16 worth of tobacco and £4 worth of lumber, corn, and other provisions, in the course of a year. By so doing he paid for his maintenance (£3) and the interest on his purchase price (£50 at five per cent, £2 10s.) and brought in a handsome margin of profit to his master. When to this product revenue are added the profits on the natural increase of marketable slaves, it will be seen how great were the immediate advantages of slavery.

The economic disadvantages were less evident two hundred years ago than they are to-day. The once productive tobacco fields are now "dead lands," or are made to yield a meager return by the application of expensive fertilizers.

Bruce,
I, Ch. VII.

Fiske,
Old Virginia
and Her
Neighbors,
I, 223-231;
II, 184-220.

Ballagh,
Land System
in the South,
117-119.

American
Husbandry,
I, 228-230,
234, 246, 247.



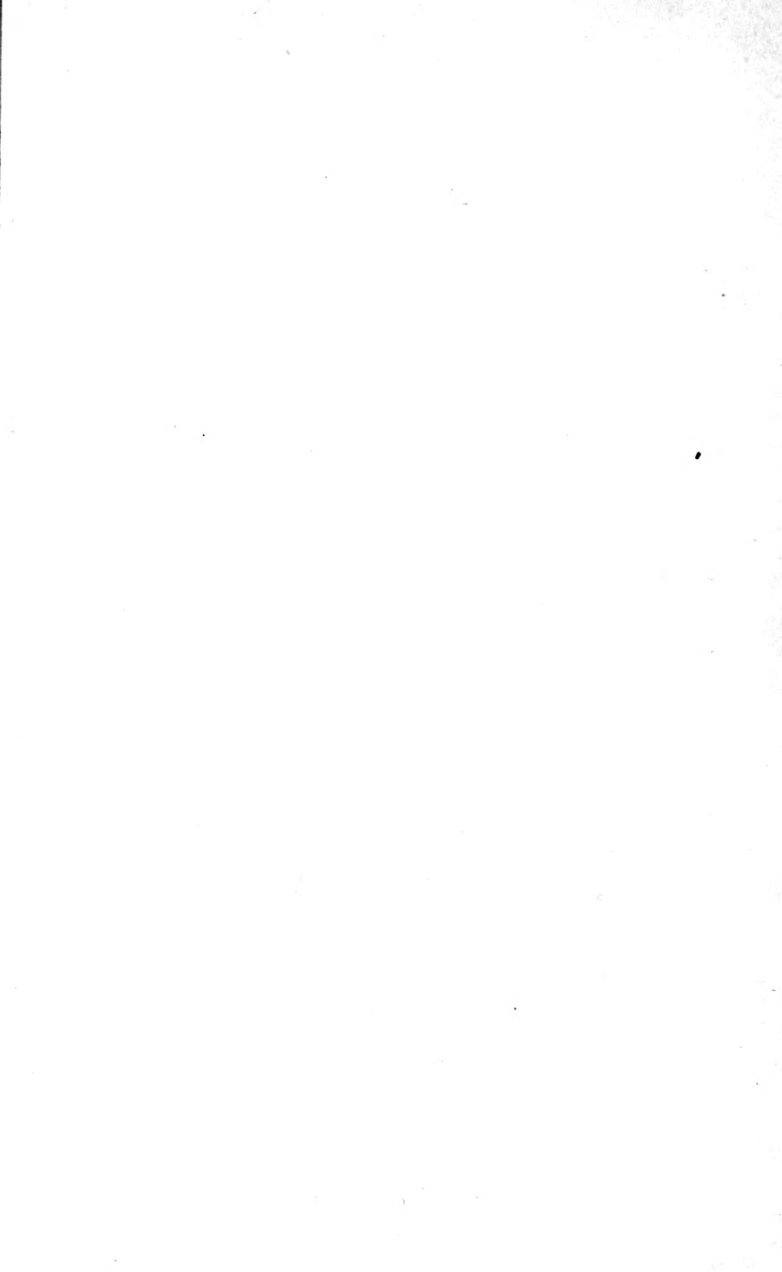
TOBACCO CULTURE

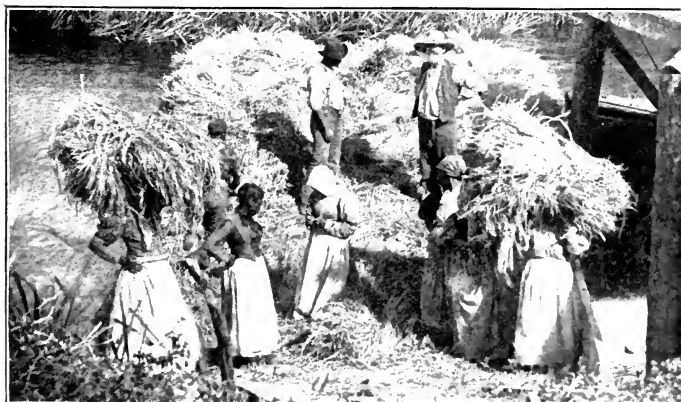
Letters of
Gov. Spots-
wood,
I, 40;
II, 295-297.

Bolles,
Pennsylvania, II,
Ch. XII.

crossed that mountain barrier at Swift Run Gap, and discovered the Shenandoah Valley, "God's own country," as he devoutly called it. The fifty gentlemen of the governor's retinue, the "Knights of the Golden Horseshoe," who drank the king's health on the summit of Mount George, formed a significant contrast to the actual settlers who swarmed into the country during the next hundred years. The Scotch-Irish of Ulster were driven to America in the eighteenth century by no less urgent a motive than impelled the Puritans and Cavaliers in the seventeenth. Their woolen and linen industries had been ruined (1681), their religious and civil liberty curtailed (1704) by act of Parliament. Seeking freedom from English tyranny, they crossed the sea by shiploads. It was a veritable race migration. Five hundred thousand came into the colonies between 1730 and 1770, the major part to Philadelphia and Charleston. In 1770 one third of the population of Pennsylvania was of this sturdy stock. Finding no desirable land open for settlement in the coast country, they pushed south along the valleys of the Appalachian Range and peopled the Great Valley of Virginia, destined to become the "cradle of America." In 1769 the southernmost settlement, Watauga, was planted in the shadow of the Great Smoky Mountains, in the elevated plateau formed by the streams that flow westward into the Tennessee.

The men who took up farms in the mountain valleys could raise wheat and barley, meat and wool, fruit and vegetables sufficient for family use. For commodities that would bring a price in distant markets high enough to pay the cost of transportation, they were forced to depend on a variety of articles to be produced only by intelligent labor. From the hills came the deerskins and tanned leather, the timber and turpentine, the hemp and flax, that figure in the export tables. Such farms were profitable only under intensive agriculture. There was little temptation to acquire great estates or to import slaves. The people of the uplands were thrifty pioneers who tilled their fields with their own hands and manufactured clothing, furniture, and wagons for





their own use, as did the small farmers of New England and Pennsylvania. The contrast in the physical features of the plain and the hill country was reflected in the character of the respective populations.

The physical characteristics of the Carolinas and of Georgia were quite similar to those of Virginia, except that the climate of the coastal plain was warmer and more malarial. Here in the sea marshes were the great rice plantations. Rice must be flooded in the growing season, and it requires rich vegetable mold such as belongs to the swamp belt. Once cleared of trees and thoroughly drained, the "dismals" were readily converted into rice fields. The work was such that no white man could endure. The laborer must stand knee-deep in mud and water, stooping under a broiling sun, while pestilent exhalations filled his lungs. Even the blacks sickened and died.

There was not so much profit in this crop as in tobacco. Each slave was expected to produce £10 worth of rice in a season. For maintenance and cost of supervision, £3 must be deducted and for interest on purchase price £2 more. When to this was added the risk of sickness and loss, the rate of profit dwindled considerably. Nevertheless the planters lived in state and luxury, drawing freely upon the rice merchants for advances in money and goods. Slaves and overseers meant great estates here as in tide-water Virginia. There was no chance for the working farmer in a region where the climate made field labor impossible for a white man.

Rice was introduced into South Carolina in the last quarter of the seventeenth century. Before the close of the eighteenth this crop made up one half the exports, a circumstance that gave serious concern to the home government. There was no great demand for rice in the British Isles, and so far as this export found its way into European markets, e.g. Spain and Portugal, it came into competition with English wheat. No arguments, however, could induce the planters to cultivate the silkworm, so greatly desired by the Spitalfield weavers. The seed of the Oriental indigo was

McCrary,
Hist. of South
Carolina,
II, 40, 61, 109,
126, 143, 262-
266, 386-391,
396-397.

American
Husbandry,
I, 345, 346,
391-396, 407,
408, 414-429.

Fiske,
Old Virginia
and Her
Neighbors,
II, 326-330.

McCrary,
I, 350.

planted on the Ashley River by Eliza Lucas, a botanical lady of Charleston, in 1741. After a series of vexatious experiments she succeeded in extracting a dye not inferior to the French product. For fifty years thereafter all the Sea Island planters devoted their richest soils to the cultivation of indigo. In the last decade before the Revolution, Carolina exported five hundred thousand pounds a year. Indigo, at from two to five shillings a pound, brought in a handsome revenue. One slave could care for two acres producing each eight pounds of dye, besides putting in the winter months on other crops.

In the "back country" the hills were clothed with noble forests, and the soil, of the valleys at least, was amazingly fertile. Here wheat could be grown and fruits and vegetables. In the Northern counties tobacco was cultivated to advantage. Though there was more profit in tobacco than in rice, and though the air of the hills was more wholesome, the men of the Carolinas clung to the sea level, and population moved westward but slowly. Not till the second half of the eighteenth century were immigrants driven to these new lands. The first settlers paid their way by the products of the forests, lumber and pitch and tar and the skins of wild animals. As the trees were cleared away, cattle were brought in. The hill pastures were excellent grazing ground. Only the cultivated fields were fenced, and the cattle roamed at will over all unprotected land. A herd of a thousand head was not uncommon. This was the paradise of the pioneer. A fertile tract of land having been chosen, the settler had but to live upon it for a term of ten, fifteen, or twenty years to secure fee simple title. The forests teemed with game, the rivers with fish, and the fertile soil yielded food in plenty with the rudest tillage. An industrious man might readily acquire a snug little property. Few slaves were imported into the hills, for their labor was not so profitable as in the lowlands, and their requirements in the way of food and clothing were greater. Here, as throughout the Piedmont district, north and south, physical conditions favored the small estate and the self-employed farmer.

Fostering Legislation. — Certain agricultural interests were furthered by the desire of English statesmen to render Great Britain independent of European imports. The hemp, lumber, pitch, and tar used in British shipyards had been imported from countries with which England might at any time be involved in war. To secure these supplies from a reliable source, the government determined to repeal the import duties, so far as the colonies were concerned, and to offer bounties on such goods as should be shipped to the British Isles. The bounty on hemp was made £6 per ton (1702). In response to this premium Virginia and Maryland exported one thousand tons a year; but New England, whence great returns were expected, never produced enough for her own shipyards. Deep, rich loam and plenty of moisture were essential to success, and these conditions were rare in the Northern colonies. The same act of Parliament offered a bounty of £1 per ton on masts sent to England. So solicitous was the government that the timber of the colonies should not be wasted, that a penalty was imposed for felling a young pine. The surveyor general was authorized to mark with a broad arrow trees reserved for the use of the royal navy. The penalty for felling such was £100. The import duties on lumber were removed. Notwithstanding these inducements the colonists continued to ship the major part of their lumber to the West Indies, Spain, and Portugal, in exchange for goods imported thence. An order from the Privy Council prohibiting this trade was of no effect. "Nothing," said one of the king's representatives, "but an Act of Parliament can prevent them."

Beer,
England's
Colonial
Policy,
389-420.

The Act of 1702 proposed bounties on other naval stores, £4 per ton on tar and pitch, £3 per ton on rosin and turpentine. This last bid was unexpectedly successful. The Carolinas availed themselves of the premium offered and were soon sending sixty thousand barrels a year to England. Prices dropped to one third of the former rate and imports from the Baltic ceased. English merchants soon had more of these commodities than could be disposed of at home and

began exporting to the Continent. For the purpose of encouraging the production of indigo, the duty on colonial imports was removed (1748) and a bounty offered of sixpence a pound. This and the removal of duties on raw silk affected the Carolinas favorably but availed nothing toward increasing the exports from the Northern colonies.

Manufactures

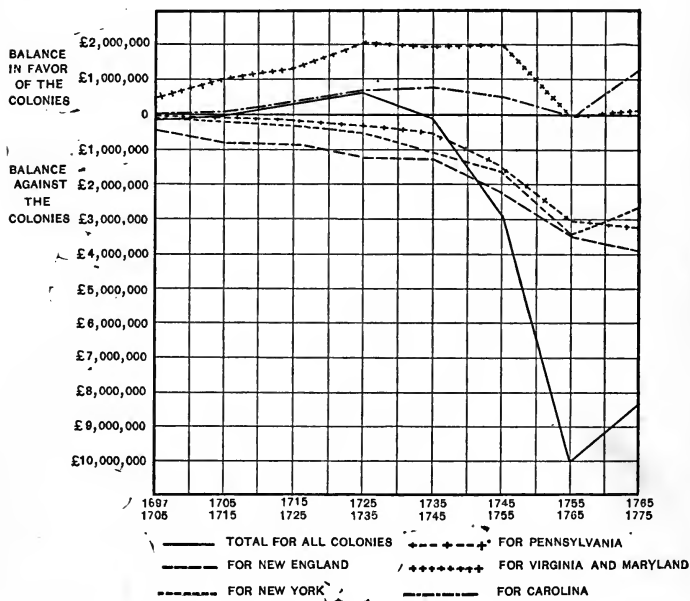
Pitkin,
Statistical
View of
U.S.,
Ch. I.

Parliamentary legislation affecting colonial industry was usually suggested by the Board of Trade and Plantations, a committee of the Privy Council intrusted with the oversight of Britain's possessions in America. The lord commissioners were empowered to inquire into the condition of the several plantations, the progress made in agriculture, trade, and manufactures, to receive complaints and petitions, and to make recommendations as a basis for imperial enactment. The reports rendered to the Board by the colonial governors, sometimes voluntary and sometimes on request, afford important information as to the industrial development of the colonies. The first concern of the commissioners was to keep colonial industry to the channels that would furnish a revenue to the mother country. The colonies were expected to provide the raw materials for England's manufactures and a market for the finished products.

From the first the colonists of New England found it difficult to pay for goods imported from the mother country. The first shipload of exports from Plymouth (the *Fortune*, November, 1621) was made up of clapboards and beaver skins. Naval stores, masts, planking, tar, pitch, etc., were always in demand, but the supply decreased as the forests were cleared. Beaver and other furs brought a high price in London, but this, too, was a short-lived industry. It was fortunate for New England that the whale fisheries began to afford marketable products just as the fur trade was languishing. The spoil of the whaling voyages, however, enriched only a few coast towns. The farmers could raise

nothing that found a ready sale in England. Moreover, the cost of imported goods was beyond their means. The transatlantic voyage was slow and the hazards great. Freight charges were high and commissions excessive. Contemporary records abound in complaints of the extravagant prices paid on this account. A shipload of goods sent to

Bradford,
243.



THE BALANCE OF TRADE BETWEEN THE AMERICAN COLONIES AND GREAT BRITAIN, BY DECADES, FROM 1697 TO 1775 .

Plymouth in 1624 sold at a profit of seventy per cent. The Civil Wars (1640-1660) checked migration to New England, and the inflow of gold ceased. The small stock of coin in the colony was quickly exhausted, and the colonists were left with no means of meeting debts in London.

Winthrop,
Hist. of New
Eng.,
I, 55-57.

Cloth Manufacture. — The General Court of Massachusetts strove to meet this difficulty by encouraging domestic

Bagnall,
Textile In-
dustries of
U. S.,
I, Ch. I, II.

Col. Laws of
Mass.,
141.

Weeden,
I, 165-178.
Bishop,
I, Ch. XIV.

manufacture. In 1640 the magistrates were directed to further the growing and preparation of flax and to consider measures for providing wheels and teaching the boys and girls how to spin not only flax but cotton and wool. In 1656 the selectmen of the several towns were ordered to require every family to furnish one or more spinners according to its capacity, each of whom was expected to spin three pounds of yarn, cotton, or wool, every week for thirty weeks in the year. The penalty for nonperformance was a fine of twelve pence for every pound short.

The raw material of cloth manufacture was scarce and dear. European flax had been introduced in 1629, but, despite the efforts of the magistrates, not enough was raised for the home market. Cotton, a far more difficult fiber, was brought in from the Barbadoes and the West Indies, but could only be spun when mixed with flax and was not in general use. Wool, the stuff most in demand, might not be had from the mother country. The English government guarded with jealous care this much prized industry and prohibited the exportation of sheep or fleece. There were as yet few sheep in the colony and the only available supply of wool was found in Spain. The General Court of Massachusetts (1645) appealed to the towns within its jurisdiction to set about the preservation and increase of sheep. Residents were urged to purchase imported ewes, and friends in England meaning to come over were advised to bring with them "as many sheep as they conveniently can." Connecticut enacted similar laws for increasing the supply of flax and wool.

The raw material once available, the people were soon able to manufacture their own clothing. Every farmhouse kitchen was a workshop where the women spun and wove the serges, kerseys, and linsey-woolseys, which served for common wear. By the close of the seventeenth century New England manufactured cloth in sufficient quantities for exportation to the Southern colonies and to the West Indies. As the industry developed, mills were erected for the more difficult processes of dyeing, weaving, and fulling. The

Weeden,
I, 387-394.

carding and spinning continued to be done in the homes. The Dutch of New Netherlands and the Swedes along the Delaware were no whit behind their Yankee neighbors. In Pennsylvania prizes were offered for the finest weaves of cloth, and the artisans of Philadelphia acquired an enviable fame.

Bishop,
I, 314.

Restrictive Legislation. — So long as the colonists confined themselves to making coarse cloth for family use, the British government showed no concern; but when goods of finer grade began to be woven and offered for general sale, the English woolen manufacturers became alarmed lest their colonial market suffer. Lord Cornbury, the avaricious and despotic governor of New York (1702-1708), reported to the Board of Trade, "I am well informed, that upon Long Island and Connecticut, they are setting up a Woollen Manufacture, and I myself have seen Serge made upon Long Island that any man may wear. Now if they begin to make Serge, they will in time make course [*sic*] Cloth, and then fine; we have as good fullers earth and tobacco pipe clay in this Province, as any in the world; how farr this will be for the service of England I submit to better Judgments; but however I hope I may be pardoned, if I declare my opinion to be, that all these Colloneys which are but twigs belonging to the Main Tree [England] ought to be Kept entirely dependent upon & subservient to England, and that can never be if they are suffered to goe on in the notions they have, that as Englishmen, soe they may set up the same manufactures here as people may do in England; for the consequence will be that if once they can see they can cloath themselves, not only comfortably but handsomely too, without the help of England, they who are already not very fond of submitting to Government would soon think of putting in Execution designs they had long harboured in their breasts. This will not seem strange when you consider what sort of people this Country is inhabited by."

Doc. Hist.
N.Y.,
I, 711-712.

In accordance with the recommendations of the lord commissioners Parliament passed the Woollen Act (1699). No woolen goods might be exported from the colonies, nor

sent from one colony to another, nor from place to place in the same colony with purpose to sell. In the following year, the duty on woolens exported from England was removed. The result of this legislation was to check the manufacture of cloth for sale and to prolong for a century the hold of the English woolen merchants on the American trade. Fully half the exports to the colonies were woolen goods.

Bishop,
I, Ch. XVI.

To a self-supporting community leather is hardly less important than cloth. There was an ample supply of the raw material in all the colonies, and deerskins and the hides of cattle and sheep were early utilized for the manufacture of boots, shoes, leggings, etc. The first tannery in New England was erected at Lynn in 1629. In the same year a shoemaker was sent over to Massachusetts Bay by the Plymouth Company. The community gave him fifty acres of land and £10 a year for his services. In 1635 Lynn set upon the manufacture of shoes and soon became famous for the excellence of its product.

Great pains were taken to secure a sufficient stock of leather. In 1640 the General Court of Massachusetts enjoined upon the population the preservation of hides. "Whereas we are informed of the neglect of many in not saving such hides and skins as by casualty or slaughter come to hand," it was ordained that every hide must be sent to a tannery under penalty of a £12 fine. Leathersearchers were appointed by each town whose duty it was to enforce this statute. No hides or unwrought leather might be exported from the colony. So successful was this policy that by 1650 Massachusetts was manufacturing shoes for sale in the other colonies. Like the making of cloth, this was in those days a domestic industry. It furnished a profitable winter occupation for the men and boys of the household. Many a New England farm still preserves among its outhouses the diminutive shoe-shop where this work was carried on. In the middle colonies, too, leather manufactures were early developed. The industry was of prime importance, since not only boots and shoes, but coats,

vests, doublets, breeches, and stockings were made of leather, especially for servants' use. Even women's skirts and aprons were fashioned from this durable material.

The abundance of beaver gave the colonists a distinct advantage in the manufacture of hats. In response to a petition from the felt makers of London, Parliament instituted an inquiry (1731) and learned that ten thousand hats a year were produced in New England and New York. In Boston alone there were sixteen hatters, one of whom made on an average forty hats a week. The goods were exported not only to the Southern colonies and the West Indies, but to Ireland, Spain, and Portugal, where they came into competition with English made hats. To guard the home industry, Parliament promptly ordered that "no hats or felts, dyed or undyed, finished or unfinished" should be "put upon any vessel or laded upon any horse or cart with intent to export to any place whatsoever." Persons undertaking such trade were to forfeit £500 for every offense. No negro could be employed in the manufacture of hats, and no white man who had not served seven years' apprenticeship. These restrictions well-nigh ruined the nascent industry.

The products of the Southern colonies did not come into conflict with English interests. Preoccupation in the raising of a few staples prevented the planters from undertaking manufactures. The several legislatures enacted statutes to encourage the production of raw materials, such as hides and wool, and offered bounties on linens, woollens, hats, hose, etc., but all to no avail. Nothing but the roughest cloth for the use of slaves was woven on the plantation. The by-industries of the New England farmhouse could not well be developed with unintelligent slave labor. Writing in 1705, Robert Beverley protested against this extravagant policy. "They have their clothing of all sorts from England; as linen, woollen and silk, hats, and leather. Yet flax and hemp grow nowhere in the world better than there. Their sheep yield good increase, and bear good fleeces; but they shear them only to cool them. The mulberry tree, whose leaf is the proper food of the silkworm, grows there like a weed, and silk-

Bishop,
I, 340-342.

Beverley,
239.

worms have been observed to thrive extremely, and without hazard. The very furs that their hats are made of perhaps go first from thence ; and most of their hides lie and rot, or are made use of only for covering dry goods in a leaky house. Indeed, some few hides with much ado are tanned and made into servants' shoes, but at so careless a rate, that the planters don't care to buy them if they can get others ; and sometimes perhaps a better manager than ordinary will vouchsafe to make a pair of breeches of a deer skin. Nay, they are such abominably ill husbands, that though their country be overrun with wood, yet have they all their wooden ware from England ; their cabinets, chairs, tables, stools, chests, boxes, cart wheels, and all other things, even so much as their bowls and birchen brooms, to the eternal reproach of their laziness." The wasteful habits of the Southern planters suited the English merchants and manufacturers far better than New England thrift.

Bishop,
I, Ch. XVII.

Swank,
Hist. Manf.
of Iron,
Ch. X, XI.

The cost of importing **iron manufactures**, nails, agricultural implements, firearms, anchors, chains, etc., was so high that the colonists early undertook to provide themselves with these essential commodities. There was a ferruginous deposit in the swamps and ponds along the coast from which iron of good quality might be produced. John Winthrop, Junior, one of the enterprising business men of Massachusetts Bay, secured capital and skilled laborers from England and erected (1643) a smelting furnace near Lynn. The ore was got from Saugus Pond, wood for charcoal and water power for the blast furnace were near at hand, and the works were soon turning out seven tons of pig iron per week. A forge for the refining of the ore was set up in 1648, and a foundry for casting soon followed. Joseph Jenks, one of the workmen brought over from Hammer-smith, designed important improvements in scythes, sawmill machinery, etc., and was a considerable factor in the success of the Lynn works. For twenty-five years farm tools and domestic utensils sufficient for the needs of the growing communities in eastern Massachusetts were manufactured here. Then, the supply of ore and of charcoal failing, the

enterprise was abandoned. The General Court granted three thousand acres of land in Braintree to Winthrop and his partners in the hope of developing the manufacture of iron from the bogs of Monontocot River. This ore deposit was exhausted within ten years, and the works were abandoned. More successful was the furnace built at Raynham (1656) by the Leonard brothers, English forgers first employed by the Lynn Company. The adjacent marshes sufficed for this and several other foundries in the town of Taunton. Somewhat later iron works were erected at Great Barrington (1731) and Lenox (1765) in the Berkshires. For the first century of our history, Massachusetts was the center of the iron industry. The other New England colonies were not far behind. Rhode Island had an iron foundry at Pawtucket, set up by Joseph Jenks. John Winthrop moved to the Connecticut Valley in 1645 and began the smelting of iron at New London and New Haven (1658). The General Court granted exemption from taxation to all persons and property engaged in this important enterprise. The hill country of Connecticut proved to contain valuable deposits of hematite ore, and the iron mines of Litchfield County soon gave Connecticut precedence over Massachusetts. A forge erected at Lime Rock in 1734 has been in continuous operation to the present day.

The manufacture of nails and tacks was a domestic industry that brought in considerable revenue to the farmers of New England. A small furnace was set up in the chimney corner, and in the winter season great quantities of nails and tacks were hammered out by the men and boys who would otherwise have been idle. With anvil and hammer a man could make two thousand tacks in a day. The rod iron was furnished by a neighboring slitting mill whose proprietor paid for the work done and marketed the product.

There was no smelting of iron in New York until the middle of the eighteenth century. Then the Ancram works were established on Livingston Manor. The ore was carried down from the Connecticut hills. The rich deposits of

Tuttle,
Annals of
Morris Co.,
2-3.

Orange County were developed before the Revolution. At Shrewsbury, New Jersey, one of the Leonards began the smelting of bog ore in 1674. The magnetic ores were not discovered until 1710. This ore was mined in the Highlands and carried in leather bags on pack horses to the works at Whippany on the Passaic River. The bar iron was transported in the same toilsome fashion across the Orange Mountains to Newark for sale. A large part of this product, as well as that of the New York works, was shipped to England. Since bar iron brought £20 per ton, it was a profitable export. Copper veins were discovered in the same metalliferous range and successfully worked by the Schuylers. The ore, which was worth £40 per ton, was exported to Bristol, England. The settlers of eastern Pennsylvania began to smelt iron ore and to cast stoves and rough utensils early in the eighteenth century. Some ore was mined along the Delaware and Susquehanna rivers, but the surpassingly rich deposits of the Alleghanies were not opened up till the nineteenth century.

Swank,
Ch. IX,
XXIII.

Bishop,
I, Ch. XVIII.

Iron ore was one of the commodities shipped from Jamestown in 1608, and the London Company anticipated rich returns from this source. In 1619 skilled workmen were sent over to "set up three iron works" in Virginia, and two years later John Berkley, "gentleman," came to take charge of the enterprise. Rich deposits of bog iron were found on Falling Creek, near Richmond, and a furnace was built, but in the Indian massacre of 1622 works and workmen were destroyed. The manufacture of iron was not resumed until a hundred years later, when under the auspices of Governor Spotswood, "the Tubal Cain of Virginia," the industry was placed on a stable foundation. Furnaces were built at the falls of the James River near Richmond and on the Rappahannock near Fredericksburg. The ore was blasted from rocks near the surface and carried in baskets to the furnace. Six hundred tons of iron were smelted at Spotswood's furnace in 1760. Some of it was cast into sundry utensils, but the greater part was exported to England in pigs and bars. The House of Burgesses

assisted in the development of these mines by grants of land and by the construction of roads.

The Maryland Assembly offered (1719) one hundred acres of land to any citizen setting up furnaces and forges in the province. The first undertaking was made at the head of Chesapeake Bay by the falls on Principio Creek. Capital and workmen were provided from England. The men were convicts sent over to serve out their term and the initial management was dishonest, but, after years of disheartening effort, the enterprise was made to pay a considerable revenue. The greater part of the pig iron exported to England was shipped by this company. The Principio furnaces and Governor Spotswood's mines were the only iron works of any importance south of Pennsylvania, and these were engaged in the production of pig and bar iron rather than in manufacture.

Restrictive Legislation. — Now it happened that in England the iron industry was hampered by lack of raw material. The ore of Sussex and the supply of charcoal from the Weald were nearly exhausted, and the resources of the "black country" were still unknown. Fully half of the pig iron consumed in the furnaces of Sheffield was imported from Sweden and Russia. The ironmasters bethought them that the supply might be had more cheaply from the colonies, and they urged upon Parliament the desirability of appropriate legislation. It was hoped that the twenty thousand tons a year needed to keep the English foundries going might be had from America, where fuel and water power were abundant. Pig iron imported from the colonies could be paid for in manufactures, and thus another business interest would secure an advantage. The act of 1750 provided that pig iron imported from America might come into any British port duty free. Bar iron was duty free at the port of London. Since European imports were subject to high duties, this gave an important advantage to colonial smelters and induced a considerable increase in the shipments. The interests of the British manufacturers were further guarded by the stipulation that "no mill or other

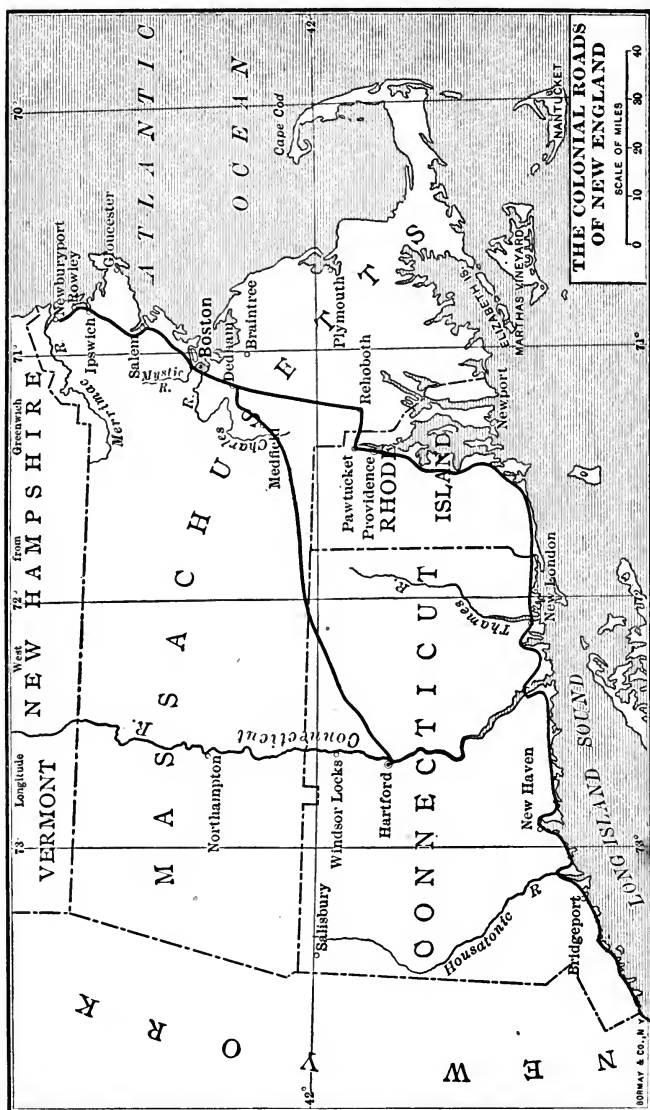
Bishop,
I, 623-628.

engine for slitting or rolling of iron, no plating forge to work with a tilthammer and no furnace for making steel" should be erected "in any of His Majesty's colonies in America." Mills already established were to be deemed a public nuisance. The effect of this legislation was a serious check to the development of iron manufactures in the colonies.

Commerce

Wagon Roads.—The surplus products of industry, beaver skins, tobacco, or lumber, mean much or little to the producer, according to his chances of getting them to market. The Atlantic coast colonies were fortunate in their commercial opportunities. The short rapid rivers of New England are not usually navigable for freight boats more than a few miles above tide water. By dint of numerous carries the Charles, the Merrimac, the Penobscot, and the Housatonic were made to serve the needs of local traffic, but the Connecticut is the only New England river that has played any considerable part in general trade. Sea-going vessels made their way up this river to Hartford, where the freight was transferred to scows and rafts and so conveyed to Windsor Locks. As the interior was settled, it became necessary to supplement the waterways by roads. In 1639 the General Court of Massachusetts ordered that each town should construct a highway to connect with that of the adjoining town. The Bay Road from Boston through Salem and Ipswich to Newbury on the Merrimac was built this year. In 1654 land communication was established with the Providence Plantations by means of the Common Road that ran through Pawtucket Falls and Rehoboth. The Shore Road connected Providence with the settlements along the Connecticut coast and with New York. The Hartford Trail struck into the interior through Dedham, Dover, and Medfield to Hartford, the head of navigation on the Connecticut. The road builders often took advantage of the Indian trails, widening the footpath to a bridle path and later to a

Weeden,
I, 110-115,
205-212, 310-
314.



wagon road. It was a task of enormous difficulty where able-bodied men were so few. Material obstructions were but little modified. Hills could not be leveled nor marshes drained, nor could wagon bridges be built except in the immediate vicinity of a populous town. The Great Bridge from Boston to Cambridge was completed in 1662, but the public coach was not put on the road till seven years later. In 1704 Madame Knight made the greater part of the journey from Boston to New York on horseback and told an amusing tale of the horrors of the route. Transportation by land was much more costly than by water. The freight on a bushel of grain from Northampton by wagon to Windsor Locks was one shilling, from the Locks to Hartford by river scow, twopence, from Hartford to Boston by sailing vessel, sixpence.

In transportation by sea, New England had the great advantage of convenient harbors. Wherever a river met the tide, seaports such as Portland, Portsmouth, Boston, and Newport prosecuted a thriving trade. Goods brought down from the farms by boat or wagon were loaded on to vessels bound for England or the West Indies. Long Island Sound conducted the traffic of New England to the great harbor at the mouth of the Hudson.

The waterways of New York and the middle colonies were unrivaled in the New World. The Hudson was navigable for ocean vessels as far as Albany, and the connection thence by way of Lakes George and Champlain to the St. Lawrence was easily made. Where the Mohawk breaks through the Appalachian range, an elevated plain leads to Lake Ontario. By this gateway the Iroquois trail crossed to the Hudson and thence to Manhattan. The pioneers widened the trail into a wagon road. The Delaware and the Susquehanna were waterways of prime importance to the settlers of Pennsylvania and New Jersey. The King's Path led from Perth Amboy to navigable water at Philadelphia, and the Chesapeake and Delaware Bays were connected by wagon road. These exceptional transportation facilities gave rise to the ports of Philadelphia and Baltimore.

Madame
Knight's
Journal.

Bolles,
Pennsylvania, II,
Ch. XVI.

Waterways served so well the purposes of the plantation trade that the men of Virginia and the Carolinas made little effort to build roads. The higher lands between the river bottoms were comparatively infertile and were therefore unappropriated or, where included in a grant, were utilized as cattle ranges. Cross-country trade was infrequent and difficult. There were no towns of importance in the interior. Only where a produce-laden river joined the sea, could commerce develop. Norfolk, Charleston, and Savannah were first-rate ports.

The Coastwise Trade.—The first commercial ventures were made in the Indian trade. The settlers sold corn and other food stuffs, beads and trinkets, shirts and blankets, to the emulous savages. Firearms, gunpowder, and rum, though forbidden by the home government, made a considerable item in the stock of an Indian trader. The redskins offered in exchange game and furs. Twenty beaver skins was the price of a musket along the Mohawk River. Plymouth colony had trading posts on the Kennebec and Connecticut rivers, the men of Boston on the Penobscot and the Merimac. The colonists came into sharp competition with the Dutch on the Hudson and with the French in Maine. The Dutch pretensions came to an end in 1664, but the French *voyageurs* had penetrated the upper St. Lawrence and the Great Lakes. Their ascendancy with the Indian tribes gave them control of the fur trade. In the eighteenth century the traffic was well-nigh engrossed by these skillful diplomats.

The fishing stations along the New England coast afforded an increasingly lucrative commerce. At Piscataqua and Pemaquid and the fishing stations of Cape Ann, on Sable Island and among the French traders on the Canadian rivers, there was a steady demand for corn, salt pork, and other supplies. In the Southern colonies, too, there was a ready market for the products of Yankee industry—cereals, live stock, shoes, and woolens. The merchants received in exchange tobacco, leather, timber, tar, and wheat. Trade with New Netherlands was contraband until 1664, but much

Weeden,
I, 88-97,
129-140.
Winthrop,
I, 132, 135.

Docs. Col.
Hist. N.Y.,
IV, 210.

Bradford,
266, 281.

clandestine commerce was carried on. The men of Plymouth had a trading post at Manomet in Buzzards Bay, where they stored their goods, tobacco (brought from Virginia), planks and pipe-staves, sack and rum, and received in exchange sheep, beaver skins, sugar, and linen cloth. Factories on the Connecticut River were no less prosperous. In 1642 a fine stone tavern was built on East River to take advantage of the custom of the many strangers who touched at New Amsterdam on their way from New England to Virginia.

Weeden,
I, 142-164.

The West India Trade. — For few of the products of New England was there a market in the mother country. Cereals, meat, and fish were English staples. So far as these goods were sent to England they came into competition with domestic products. The Corn Law of 1660 imposed duties on grains that were practically prohibitory; other legislation forbade the importation into England of salted beef and pork. The only profitable market for the surplus crops of New England was in the West Indies. There her flour, fish, and lumber, her woolen and leather manufactures, were in great demand and could be exchanged for sugar, molasses, cotton wool, dyestuffs, etc., the surplus products of a tropic clime. The molasses was made over into rum and the cotton and dyestuffs into cloth, commodities that could be marketed at a considerable advance in price. The Bermudas sent potatoes and other vegetables, oranges and limes, luxuries for which the coast colonies were their only market. The exports of the middle colonies, grain, salt meat, and lumber, were also sent to the Caribbean. The Southern colonies sent nothing to the West Indies and required nothing thence. Trade with the tropics was confined to the Northern ports.

Weeden,
II, Ch. XII.

The Slave Trade. — The monopoly of the Royal African Company was broken in 1698, and this lucrative trade opportunity was thrown open to any vessel flying the British flag. The traders of New England quickly secured their full share. Sloops from Boston, Newport, and Bristol sailed for the Gold Coast laden with hogsheads of rum. It was there

exchanged for captive negroes, or, perchance, for bars of gold. The wretched human freight was carried to the West Indies and traded for sugar and molasses, or to Virginia, where negroes brought a good price in tobacco. Either cargo could be disposed of to advantage on returning to the home port. The profits of this triangular commerce were enormous. A slave purchased for one hundred gallons of rum worth £10 brought from £20 to £50 when offered for sale in America. Newport could not, with her twenty-two stillhouses, manufacture rum enough to meet the demand.

Transatlantic Trade. — Old World markets offered a steady demand for the agricultural products of America. Fish, timber, furs, and tobacco made the bulk of the home-bound cargoes in the seventeenth century. Whale oil and whalebone, cider, rum, and rice figured largely in the exports of the eighteenth. Returning vessels brought linen and woollen goods from England and Holland, iron and wool from Spain, salt from Portugal, spices from the Mediterranean, wine and fruit from Madeira and the Canary Islands. Each shipmaster, English, Dutch, or Spanish, selected the goods that he thought most likely to find purchasers in the colonies, and, once arrived in an American port, was fain to take in exchange whatever salable commodities were there available. He had then to find a market for the tobacco, pipe-staves, beaver, or salt cod taken aboard. He might steer for England or the West Indies or the Mediterranean as he saw fit. A vessel not infrequently spent years in this round-about trade before returning to her home port.

Restrictive Legislation. — The colonial policy of England during the seventeenth and eighteenth centuries was dictated by the theory that settlements were "plantations" whose industries must serve British interests. No mines producing gold and silver had been discovered, but money could be coined in trade. Tobacco, for example, by legislation of 1621, might be exported only in English ships and to English ports, where a duty varying from one to three pence a pound was levied. In due course this restricted market was overstocked, and the price fell from

Abbot,
Ch. III.

Felt,
Annals of
Salem,
II, 289.

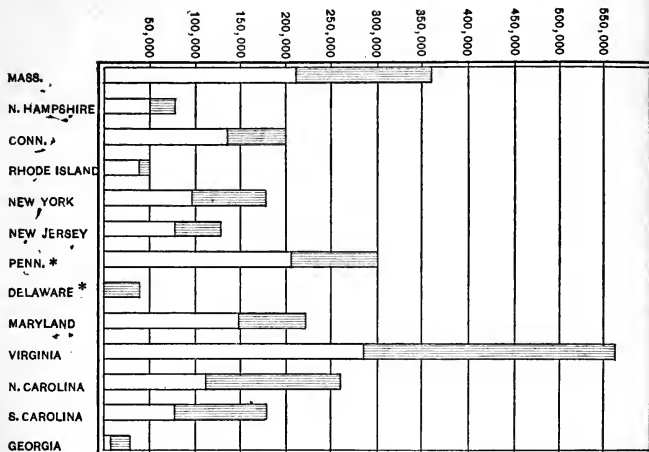
Weeden,
I, 232-244,
337-378;
II, 552-594,
607-623, 641-
665.

Chart,
Colonial
Exports,
p. 78.

Beer,
317-328.

Rabbeno,
American
Commercial
Policy,
3-21, 48-91.

Beer,
347, 349.

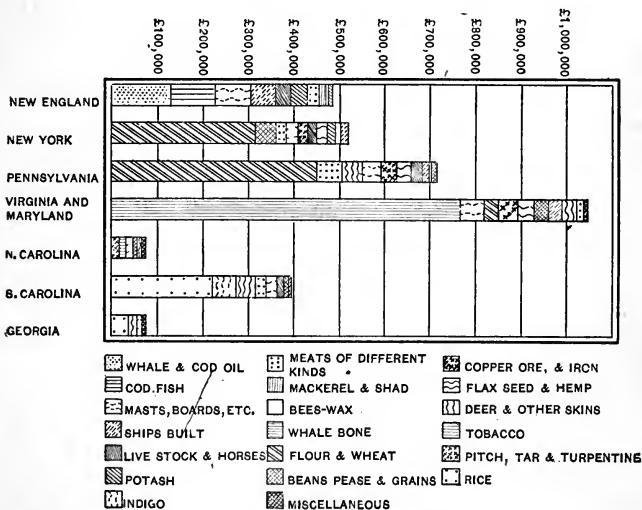


ESTIMATED POPULATION OF THE COLONIES 1754 AND 1775

□ ESTIMATED POPULATION 1754

■ ESTIMATED INCREASE, 1754-1775

* ESTIMATE FOR PENNSYLVANIA FOR 1754 INCLUDES DELAWARE



COLONIAL EXPORTS, ANNUAL AVERAGE, 1763-1773

three shillings per pound in 1619 to twopence per pound in 1704. The tobacco planter was denied direct access to the Continent, where prices ranged much higher. Coastwise traffic was subject to a provincial duty of a penny a pound. This tax was frequently evaded. It was not a difficult matter to load the hogsheads on to lighters and take them out under cover of night to the trader that lay off the coast waiting for the clandestine freight. Smuggling, in the mind of the outraged planter, was an entirely legitimate method of getting a fair price for his crop. British men-of-war patrolled the coast in vain. The bayous of the Chesapeake nourished a breed of nimble sailors who gloried in outwitting the customs officers. One of these pirates scuttled his schooner to elude his pursuer and brought her to the surface again when the danger was past, none the worse for a ducking.

The Navigation Acts. — England's jealousy of the Dutch carrying trade determined a policy that has had far-reaching influence on British and American shipping. In 1651 Cromwell's Parliament enacted a law that was reënforced (1661) immediately after the Restoration. The monopoly of British trade was given to vessels built and manned by British subjects. No products of Asia, Africa, or America might be imported into Great Britain or any of her dominions except in English ships. No European products might be imported except in English ships or in ships owned in the country where the goods were produced. All imports must be shipped direct from the country where they were grown or manufactured, and not from an intermediate port. The provision that vessels violating any clause of this act were liable to seizure and confiscation together with the contraband cargo, brought on war with Holland. After the loss of New Amsterdam, Holland's flourishing trade with the British colonies shrank to meager proportions, and English vessels, whether built in Great Britain or in America, fell heir to the Atlantic carrying trade. This practical monopoly of colonial commerce meant an advance in freight rates, since the merchant ships were not at first adequate to

Beer,
327-340.
Weeden,
I, 232-244.
Macdonald,
Select
Charters,
106-116.

the traffic, but the loss was soon made good to the colonies in the new impulse given to shipbuilding.

Wright,
Indust. Evol.
of U.S.,
Ch. I, II.

Weeden,
I, 120-129,
252-260.

Marvin,
Ch. I, II.

Colonial Shipping. — American shipyards had important advantages over those of England. Materials of the best quality were to be had at little cost; masts of fir and planks of oak were supplied from primeval forests. Everywhere there was pitch pine for the making of tar and turpentine, and hemp for cordage was soon provided. The necessity for exercising a variety of crafts had developed in the colonists the Yankee knack that made them excellent shipwrights. The rivers furnished water power for saw-mills and brought lumber down to the harbors where the ships were built and launched.

New England began to build sea-going vessels after 1640 when, the tide of immigration from England being checked, few British ships came to the Northern colonies, and it was found necessary to provide for the needs of trade. At Newburyport and Salem on the Massachusetts coast, at New Bedford, Newport, Warren, and Providence, on Buzzards and Narragansett bays, men set to work to provide for the expanding needs of these thriving ports. The supply of fishing smacks, whaling vessels, and barques for the coast-wise trade was soon sufficient for domestic needs, and ships were even built to sell abroad. The shipyards at New London on the Thames and New Haven on the Connecticut were equally busy. Poughkeepsie and Albany on the Hudson furnished vessels for the trade of New York. At Wilmington and Philadelphia on the Delaware and in the harbors of the Chesapeake, boats were building apace. On the eve of the Revolution the annual output of the Atlantic coast was estimated at eighteen thousand tons. New England launched seventy sail, New York twenty, Pennsylvania twenty-five, while Virginia and Maryland combined produced but thirty vessels and South Carolina but ten. In spite of the ample supply of raw materials the industry developed slowly in the South, because capital and industrial enterprise were absorbed in agriculture, and because the Southern colonies experienced no such decline in com-

commercial intercourse with Britain as forced the men of the North to provide for the carrying trade. Planters sometimes owned their own vessels, but they were usually content to rely on the ship sent out by their London factor, or the chance visits of the Yankee trading sloops.

The Enumerated Articles. — The Cavalier Parliament went a step farther than the Roundheads in securing the dominance of British interests. A clause was added (1663) to the Navigation Acts requiring that certain enumerated commodities might be exported from the British colonies to Great Britain and her dominions only. Cotton, indigo, mastic and other dyewoods used in the making of cloth were limited to the home market, in the interests of manufactures. Sugar, tobacco, and ginger might not be exported direct to the Continent, but must pass through a British port that the government might secure the customs duty and the merchants a commission on the transfer. Thus far the limitation affected the West India trade chiefly, since none of the commodities but tobacco was produced on the mainland. Other products were added to the list from time to time as British interests seemed to demand: molasses, rice, and naval stores in 1705; copper, beaver and other furs in 1722; whale fins, hides, iron, lumber, raw silk, and pearlshes in 1764. Vessels laden with enumerated goods must give bond to land the cargo in an English port whence it might be shipped to the Continent.

The legislation of 1663 restricted also the import trade. Not only were the staple products of the colonies limited to the English market, but goods imported from Europe must be brought via England that duties and commissions might be collected before the cargo was reshipped to America. As a concession to colonial interests certain essential commodities were exempted from this requirement. Salt for the fisheries of New England might be imported direct from Spain and Portugal. Wines from the Western Islands need not make the roundabout journey to an English port. Provisions, horses, servants, and (later) linen might be shipped from Ireland without paying toll to the English merchants.

Beer,
341-363.

Macdonald,
133-136.

Docs. Col.
Hist. N.Y.,
III, 383-384

Weeden,
I, 236-241;
II, 658-663.

Smuggling.—The object of this commercial policy was evident. The English shipmaster was enabled to charge high freights because of his exclusive privilege of carrying colonial goods. The English merchant was insured his profits on colonial trade since the major part of exports and imports, whether from Europe or the Orient, must pass through British warehouses. The English manufacturer was enabled to get his raw materials cheap and sell his finished goods dear by his practical monopoly of the colonial market. That this policy, if actually put into execution, must work injury to America by adding to the costs of transportation, reducing the price of what the colonists had to sell, and advancing the price of what they must buy, was perhaps not quite so apparent to the comprehension of the statesmen who devised these regulations. Colonial industries escaped ruin only because the acts were evaded by a well-developed system of smuggling. Many a hogshead of tobacco found its way to Holland and France without paying tribute at an English port. Vessels laden with freight from the Continent lay offshore in the neighborhood of Cape Ann for weeks together. Dories and fishing smacks and lumber scows plied to and from, conveying the contraband goods to Gloucester and Salem. In 1700 one third of the trade at Boston and New York was in direct violation of the law. Royal governors and revenue officers protested in vain. Smuggling was upheld by public opinion and some of the most reputable men of the colonies were engaged in this illicit business.

Weeden,
II, 556-559.

Docs. Col.
Hist. N.Y.,
III, 44.

Beer,
405-420.
Macdonald,
248-251.

The Molasses Act.—More irritating still to the men of New England was the legislation that concerned the West India trade. Merchants had found greater profit in commerce with the French islands and Dutch Guiana than with the Barbadoes and Jamaica. The English islands could not take all the goods offered by the Yankee traders, and profits declined. Furthermore, the French sugar and molasses could be had at lower prices than the Jamaican. The French planter was the more economical producer, and his molasses was a drug in the home market because of a law excluding rum

from France. A brisk trade with these foreign colonies had developed to the prejudice of Great Britain's sugar islands. Protests were forwarded to the home government, and Parliament undertook to remedy the grievance of the English planters. A bill passed the House of Commons (1731) that prohibited the importation of sugar, molasses, and rum from any foreign colonies into Great Britain, Ireland, or any of the American colonies; also the exportation of horses and lumber to foreign plantations. The House of Lords rejected the bill, arguing that the Northern colonies could not afford to buy English manufactures if this market for their agricultural products was cut off. The result of the debate was a compromise measure that passed both houses in the year following. "For the better securing and encouraging the trade of His Majesty's sugar colonies in America," practically prohibitory duties were imposed on foreign sugars. Rum and spirits were to pay ninepence per gallon, molasses and sirup sixpence, sugar five shillings per hundredweight. Trade with the French West Indies would have received a serious check but for the general practice of smuggling.



Credit Money

As the population of the colonies grew and business interests multiplied, the demand for capital with which to develop the latent resources of the country and for money to use in trade steadily increased. Neither wampum, bullets, nor staple products could serve the money need of these thriving communities. In 1690 Massachusetts hit upon what seemed to men of that day an inexhaustible fountain of wealth in the issue of credit money. The expedition against Louisburg had failed, and the soldiers, who were to have been rewarded out of the booty, returned home clamorous for pay. The treasury was empty, and the government determined to meet its obligations in promises. Bills of credit were issued to the amount of £40,000. The notes bore no interest and were made payable at no fixed time. There was some skepticism as to their ultimate value,

Weeden,
I, 379-387.

Sumner,
Hist. Am.
Currency,
14-43.

Bullock,
Pt. I, Ch. IV.

Davis,
Currency
and Banking,
Pt. I.

Dewey,
Financial
Hist. U.S.,
18-30.

and they were received in exchange at but twelve and fourteen shillings in the pound. The government succeeded in bringing this paper money up to par by making the bills receivable for taxes at five per cent advance over silver coin. The public was assured that the notes would be redeemed in silver at the end of twelve months, but the date of redemption was extended repeatedly until holders of the notes became discouraged, and the bills were reissued as soon as redeemed. In 1711 another expedition to Canada rendered necessary a new issue of bills of credit. Massachusetts became responsible for notes to the amount of £40,000. New York and Pennsylvania, joining in this expedition, met their proportion of the expense by issues of £10,000 and £2000 respectively. In 1733 Rhode Island, Connecticut, and New Hampshire had resort to this attractive expedient for meeting expenditures to which income from taxation was inadequate, and the Southern colonies soon followed the same pernicious example.

Weeden,
II, 473-491.

The issue of paper money by a fully established government is a legitimate device for meeting a financial emergency when resort to immediate taxation is impracticable and when the obligation incurred is guaranteed out of the revenue of subsequent years, but the expedient is attended with grave dangers. It is always easier to contract a debt than to cancel it. The needy colonial governments deferred payment from time to time until public confidence in the issue was weakened and the bills began to depreciate in value. The loss fell on bankers who held the notes and on merchants who were obliged to receive them in exchange for goods. Farmers, on the other hand, who were purchasing implements and stock, thought the country needed more of this inexpensive money. The supply of capital was far short of the demand, and borrowers were obliged to pay interest as high as eight and ten per cent. It was urged that the government might suitably meet the emergencies of individual citizens by issuing bills of credit for the purpose of making loans at a reasonable rate of interest on real estate security. This seemed a brilliant plan, since it would

meet three crying needs. It promised to furnish an income to the government, capital to landowners, and currency to the people. The argument was amply convincing to the legislators of that day. In 1714 the General Court of Massachusetts directed the issue of £50,000 to be loaned to private persons at five per cent. The loan was to run for five years, and the borrower undertook to pay back one fifth each year, giving a mortgage on his land as security. Subsequent issues brought the amount of these Massachusetts loans up to £260,000. The other colonies quickly adopted similar measures for meeting the general demand for capital. The results were disappointing. The farmers were usually unable to meet their payments, the governments got into financial difficulties and failed to redeem their obligations. The bills soon fell into disrepute, and the whole country from New Hampshire to Georgia was flooded with a depreciated paper currency. The several issues of twelve distinct legislatures were mingled in hopeless confusion.

The Board of Trade had advised the colonial governors to veto the bills authorizing the issue of credit money, but their opposition was vain. The irate legislators refused to vote supplies, withheld the governors' salaries, and so forced their approval of the popular measures. Effort was made to restore full purchasing power to the discredited currency by declaring the notes legal tender in payment of private debts and imposing heavy penalties on creditors refusing to receive them. Business men of the colonies and merchants in London made vehement protest against these force laws.

In 1750 the paper money of Massachusetts exchanged for sterling at one eleventh of its face value, that of New Hampshire at one twenty-fourth, that of Rhode Island at one twenty-sixth. The depreciation was less in the Middle and Southern colonies, but everywhere the injustice done to capitalists and to widows and minors dependent on invested funds was great and increasing. The year following Massachusetts redeemed her outstanding bills in silver accruing from the Louisburg indemnity, and soon after declared gold and silver the only legal tender in payment of debt. The

credit money of the neighboring colonies was rigorously excluded. The commercial advantages of specie were soon evident in an access of prosperity to the "silver colony." The West India trade had centered in Newport; much of it was now transferred to Boston and Salem. Parliament reënforced the action of Massachusetts by prohibiting (1751) the four Northern colonies from issuing bills of credit except in the emergency of war. In 1763 this prohibition was extended to the remaining colonies, and the legal tender quality of the bills was limited to the period originally fixed for their redemption. This restriction was dictated by superior financial wisdom, but it was bitterly resented by the advocates of a cheap and abundant currency.



IRON DINNER POT

Cast at Lynn in 1645.

CHAPTER IV

INDUSTRIAL ASPECTS OF THE REVOLUTION

Causes

THE French and Indian Wars (1754-1763) had momentous consequences for the American colonies. In the Peace of Paris, the claim of France to the St. Lawrence, the Great Lakes, and the fertile stretch of country between the Mississippi River and the Alleghanies was surrendered to Great Britain. The trading posts, forts, and mission stations were abandoned by soldier, priest, and *voyageur*, and the long race rivalry terminated in the triumph of the English. The Indian tribes were less to be dreaded now that the representatives of a hostile power no longer incited their plundering raids. The placing of British garrisons at strategic points, Forts Duquesne, Niagara, and Detroit, assured the safety of the pioneer settlements. At the same time Spain yielded Florida in exchange for Cuba and the Philippines, taken from her during the war, and the Southern frontier of the British provinces was extended to the Gulf. The Cherokees soon became convinced that the advance of the white man could no longer be resisted and withdrew beyond the mountains.

The seven years' contest had fully demonstrated the capacity of the colonies for self-defense. For the later campaigns they had furnished twenty-five thousand soldiers, clothed, armed, and paid out of appropriations made by the colonial assemblies. More than four hundred privateers were fitted out in American ports, and the damage they inflicted on French shipping contributed in no slight degree to the final victory. These services had been gratefully acknowl-

Lecky,
Hist. of Eng.,
III, Ch. XII.

Hulbert,
Braddock's
Road,
Ch. I.

Maclay,
Hist. Am.
Privateers,
39-42.

edged by the British Parliament, and large appropriations were voted in partial compensation.

The Imperial Régime.—Great Britain emerged from the Seven Years' War no longer an island kingdom, but an empire. Her colonial possessions, not only in America but in India, had been enormously increased, and her statesmen were forced to devise a system of government commensurate with these new responsibilities. A harmonious administration of colonial interests and an adequate scheme of colonial defense were of prime importance. Both the lords of trade and the king's cabinet were convinced that the régime of "salutary neglect" must come to an end and that vigorous measures must be taken to bring the American colonies under effective imperial supervision before they had quite outgrown such control. The commercial regulations so long flouted and evaded must be enforced, a standing army of not less than ten thousand British regulars should be stationed in America and its maintenance provided, in part at least, by taxes imposed upon the colonies. Lord Grenville, the prime minister, and Charles Townshend, president of the Board of Trade, were primarily responsible for the new policy. They were, however, resolutely supported by George III, a king who took his functions seriously and to whom the royal prerogatives were sacred and above dispute.

Pitkin,
Hist. of U.S.,
I, Ch. VI.

The authority of Parliament in the affairs of the colonies had never been defined. The Americans were exercising a measure of self-government far beyond that enjoyed by eighteenth century Englishmen. The several colonial assemblies were accustomed to legislate concerning all matters of internal interest, and their acts had been called in question only when they affected British trade. Internal taxes and customs duties for the purpose of raising revenue had hitherto been laid by the same authority and applied to the expenses of local government. Parliament had enacted commercial regulations with a view to securing monopoly of trade with the colonies, and duties had been imposed at colonial ports in order to prevent the importation of goods



that came into competition with British interests. Internal taxation, however, and revenue duties had never been attempted. Grenville's great predecessors, Walpole and Pitt, had rejected proposals of this nature as impolitic. But the war had entailed heavy burdens. Great Britain was staggering under a debt of £140,000,000, half of which represented military expenses in Europe and America, and the English taxpayer was beginning to protest. The colonies, on the other hand, had been increasing in wealth and population with extraordinary rapidity, and the costs of local government were light. They were deemed abundantly able to meet some portion of the expenses henceforth to be incurred in their behalf.

Macdonald,
272-281.

The Sugar Act. — The change of policy was indicated in a series of parliamentary enactments proposing to raise a revenue from the "American Plantations." The duties laid in 1733 on sugar and molasses brought into the colonies from the French and Spanish West Indies, were meant to be prohibitory, and no revenue was anticipated or secured. In 1764 these duties were cut in half in the expectation that the distillers could pay these rates without unduly raising the price of their rum. The preamble to the Sugar Act cites the necessity of providing for the defense of the colonies as the reason for reducing the imposts.

The Sugar Act imposed duties on other imports — coffee, wines, silks, cambrics, and French lawns. The rates were not so high as seriously to diminish importation, and, being levied on articles of luxurious consumption, they were paid without much protest. Not so the duty on foreign molasses. This jeopardized an important business interest. The duty of threepence a gallon, once enforced, advanced the price of molasses twenty per cent and absorbed all the profit of the rum distillers, since the price of rum could not be increased in proportion. Orders for molasses were withheld, and the merchants, having small prospects of return cargoes from the West Indies, detained their vessels in port or sent them elsewhere. The lumber and flour, salt meat and fish

with which the trader would have been loaded went begging for purchasers. Prices fell and the farmers lost their best market. Workmen were thrown out of employment, not only field hands but sailors and lumbermen, distillers and gristmill employees. Governor Bernard of Massachusetts, by no means an advocate of colonial privilege, was moved to serious protest against the disastrous effect this ruthless tax would have upon the fisheries of New England. "Our pickled fish wholly, and a great part of the codfish, are fit only for the West India market. The British Islands cannot take off one-third of the quantity caught; the other two-thirds must be lost or sent to the foreign plantations, where molasses are given in exchange. The duty on this article will greatly diminish its importation hither and being the only article allowed to be given in exchange for our fish, a less quantity of the latter will of course be exported. The obvious effect of which must be the diminution of the fish trade, not only to the West Indies, but to Europe; fish suitable for both these markets being the produce of the same voyage. If, therefore, one of these markets be shut, the other cannot be supplied. The loss of one is the loss of both as the fishery must fail with the loss of either." Bernard believed that a tax of one penny a gallon could be collected without jeopardizing the business interests involved.

Speeches of
Govs. of
Mass.,
19.

The decline in the West India trade checked the inflow of Spanish coin and thus deprived merchants of the silver needed to meet their foreign obligations. The requirement that the obnoxious tax should be paid in specie was peculiarly irritating in view of the fact that the sole source of supply was stopped by means of these very duties. The prohibition of further issues of credit money, a measure wise in itself but ill-timed, aggravated the difficulties of the situation. The supply of paper money began to run short just when the dwindling importations of silver rendered recourse to specie difficult. Domestic trade was seriously embarrassed, and business men the length and breadth of the country were driven to the conclusion that their industrial interests could

not be regulated to advantage by a legislature three thousand miles distant, most of whose members knew nothing whatever of American conditions.

If anything more were needed to provoke hostility to the Sugar Act, it was supplied in the provisions made for enforcement. The laxness of the years in which an expenditure of £8000 in collection had produced a revenue of £2000 was now replaced by great vigilance. Customs officers were required to reside at their posts and to render systematic accounts as guarantee of efficient service. Writs of assistance authorizing collectors to search private houses suspected of harboring smuggled goods, had been granted in 1761 to check illicit trade with Canada, and they were now used with effect for inspection of the West India trade. The war vessels stationed along the coast were ordered to assist in the capture of smugglers, and their officers were sworn in for the revenue service. The courts of admiralty were empowered to try cases of evasion without recourse to jury trial. Serious friction was the inevitable result of these drastic measures.

Several enactments calculated to lighten some of the limitations on colonial trade were adopted in 1765 and 1767. The removal of the import duties on grains, salt meat, fish, and dairy products sent from the American colonies was probably suggested by scarcity in England, but the concession was none the less advantageous to the farming communities. If continued it might go far toward offsetting the loss of the West India market. The removal of the duty on whale fins was intended to placate New England. An olive branch was offered to the Southern colonies in the shape of bounties on hemp and flax and raw silk. American hides, too, were exempted from duty in British ports. Rice, hitherto an enumerated commodity, was not exempted, but it might now be exported to the Spanish colonies as well as to European ports south of Finisterre.

The Stamp Act. — The amount of revenue derived from the duties levied under the Sugar Act was disappointing, but Grenville was hopeful that £100,000 a year might be

Weeden,
II, 671.

McCrady,
II, 615.

secured by a stamp tax. Such a measure was already in successful operation in Great Britain. It should work well in the colonies. In March, 1765, the Stamp Act passed both houses of Parliament with little comment, for few of the members anticipated any difficulty in its enforcement. Stamps varying in cost from halfpenny to £10 were required on all licenses, deeds, contracts, wills, etc., and on everything printed for sale, such as books, pamphlets, almanacs, newspapers, and playing cards. Stamp distributors were appointed whose duty it was not only to provide the stamps but to spy upon delinquents. They were ordered to frequent the law offices and the courts and to visit the printers' shops and report all cases of noncompliance. Neglect to affix the proper stamp was punished by fines varying from £5 to £50. Persons selling or hawking almanacs or newspapers not duly stamped forfeited forty shillings. The penalty for counterfeiting was death.

Despite these stringent provisions the Stamp Act produced no revenue. Men refused to buy the stamps, preferring to leave contracts unrecorded. Patriotic lawyers declined to accept documents bearing the official seal. Newspapers suspended issue or appeared with a death's-head printed in place of the required stamp. Boxes containing the hated emblems of imperial authority were burned or thrown into the sea. In South Carolina the courts were closed because the stamps could not be used. In Boston the stamp distributor was forced by threats of violence to resign his duties. The stamp office was destroyed and the house of the lieutenant governor was burned to the ground. The citizens of New York were equally energetic in their rejection of the hated tax. In every town along the coast, the efforts of the officers to enforce the use of the stamps was successfully resisted.

McCrady,
II, Ch.
XXVIII.

The struggle that followed cannot be accounted for on economic grounds alone. The tax imposed a serious burden on certain business interests, but the political principle involved was far more important than any money loss and affected all classes. The colonists believed that they were

entitled to all the rights of Englishmen resident in the British Isles, and that they should not be taxed by an assembly in which their interests were not represented. In this view they were supported by liberal-minded statesmen such as Pitt and Burke. George III and his ministers, on the other hand, had scant sympathy with popular rights, whether in England or America, and held to their own theory of colonial dependence. A series of resolutions, drawn up (1766) by a congress of delegates from nine of the thirteen colonies, was submitted to the king and to both houses of Parliament, but no answer was vouchsafed.

Nonintercourse.—Argument having failed of effect, the colonists sought to reach the ear of the mother country through her trade interests. A form of protest very like the modern boycott was determined on. The merchants of New York signed an agreement to import no goods from Great Britain until the obnoxious legislation should be repealed. The merchants of Boston and Philadelphia adopted similar resolutions. Retail dealers undertook in turn to sell none of the boycotted imports, and their customers, catching at this chance of expressing their indignation, agreed to buy articles of domestic manufacture only. The Daughters of Liberty, an enthusiastic organization of ladies, resolved to purchase no more British goods and to wear only homespun. These loyal Americans conducted spinning matches where prizes were offered for the best day's work. The senior class in the "university at Cambridge" agreed (1768) to take their degrees "dressed altogether in the manufactures of this country." The students of Rhode Island College imitated this patriotic example in the year following.

Meantime a systematic effort was being made to develop domestic manufactures as a substitute for imported goods. As early as 1751 prominent citizens of Boston had subscribed capital to a society for "Encouraging Industry and Employing the Poor." The General Court voted £1500 to aid in establishing a "Manufactory House." Similar societies were organized in New York in 1764, and in Philadelphia in 1775. In these and many smaller towns, linen and woolen cloth of

Resolutions
of the Stamp
Act Con-
gress.
Macdonald,
313-315.

Bishop,
I, 365-383.

Bagnall,
I, Ch. II.

quality approaching the English goods was made up in considerable quantities. The supply of flax and wool being quite inadequate to the new demand, the production of these raw materials was urged upon the farmers. The killing of lambs was discouraged, and butchers exposing this meat for sale were boycotted by the patriotic.

The royal governors and other British officers underrated this movement, representing in their reports to the Board of Trade that the actual achievements of the newly established manufactures were slight; but the ministry soon became convinced that the Americans were in earnest. The demand for English goods fell off alarmingly. Merchants declined to take the risk of shipping the tabooed commodities, and vessels sailed with half a cargo or stayed in port, thus involving their owners in financial difficulties. Manufacturers realized the loss of the American market in diminished sales. Unable to dispose of the goods in stock, they closed their mills. Thousands of workmen were thrown out of employment. Petitions for the repeal of the legislation that had occasioned this business paralysis were forwarded to London, not only from colonial legislatures but from English merchants and manufacturers. Factors found the collection of debts from America increasingly difficult and added their plea to the general protest. The Board of Trade was beset by the angry representatives of great business interests, and petitions poured in at the rate of a dozen a day.

The Repeal. — The Stamp Act had been adopted almost without discussion, but the proposition to rescind brought on one of the longest and fiercest debates that had ever taken place in the British Parliament. Pitt, the consistent opponent of the imperial policy, proposed that the Stamp Act should be repealed absolutely, totally, and immediately, and that the reason for repeal should be assigned, namely that it was erroneous in principle. But even this warm friend of the colonies urged the assertion of Parliament's prerogative. "Let the sovereign authority of this country over the colonies be asserted in as strong terms as can be

devised, and be made to extend to every point of legislation whatsoever; that we may bind their trade, confine their manufactures, and exercise every power whatsoever — except that of taking their money out of their pockets without their consent.”

Franklin's
Works,
III, 407-450.

Franklin, then in London as agent of Pennsylvania, was examined before a committee of the House of Commons as to the temper of the Americans. He stated that they would never submit to the new tax unless compelled by force of arms. “The Stamp Act says, we shall have no commerce, make no exchange of property with each other, neither purchase, nor grant, nor recover debts; we shall neither marry, nor make our wills, unless we pay such and such sums; and thus it is intended to extort our money from us, or ruin us by the consequences of refusing to pay it.” To submit, he argued, would involve the colonies in future requisitions, even more onerous and arbitrary. Early in 1766 the Stamp Act was repealed because, as the preamble recites, “the continuance of said act would be attended with many inconveniences and might be productive of consequences greatly detrimental to the commercial interests of these kingdoms.” But the king's party had no intention of abandoning the principle at stake.

Attempt to vindicate Imperial Authority. — Close on the repeal, Parliament passed the Declaratory Act, stating in explicit terms that the “Colonies and Plantations in America have been, are, and of right ought to be subordinate unto and dependent upon the imperial crown and Parliament of Great Britain.” Esteeming the Declaratory Act an empty threat, the colonists rejoiced in the withdrawal of the stamp tax as a victory for constitutional rights. The South Carolina Assembly voted to erect a statue of William Pitt in grateful recognition of his services in securing the repeal. The Quakers of Philadelphia celebrated the king's birthday in new suits made of English cloth and gave their homespun to the poor. In New York and Boston the merchants renewed their orders for English goods. The ultimate victory was, however, by no means assured. The king and his cabi-

net were more than ever bent upon vindicating the right of Parliament to derive a revenue from the colonies. Late in 1766 the Sugar Act was revised, the duties being lowered, that on molasses from threepence to one penny a gallon, in the expectation that the returns would increase. The expenses of the British garrisons were provided for in the Mutiny Act, which quartered the troops in specified districts and required the inhabitants to furnish them fuel, light, and lodgings. The irritating obligation was deeply resented, especially in New York, Boston, and Charleston, where the refusal of the people to contribute was indorsed by the assemblies.

This new affront to imperial authority determined the government on drastic measures. Townshend, now the leading spirit in the cabinet, forced through Parliament three fateful enactments. The New York Assembly was suspended from legislative functions until the Mutiny Act should be respected in that province. Commissioners of customs were sent to America with powers adequate to the enforcement of the trade regulations. A new revenue tariff imposed duties on glass, painters' colors, paper, tea, wine, oil, and fruit imported into the colonies. The revenue anticipated from the new duties (£40,000) a year was to be applied to the payment of the salaries of the king's representatives in America, the governors and judges, that they might henceforth be independent of the assemblies. The duties of the Townshend Act were not high, but they were levied on articles of general consumption and added to the cost of living for all classes and all sections. The proposal to render governors and judges independent of colonial legislatures was even more unpopular than provision for a standing army. The men appointed to colonial office were often mere favorites and younger sons of the lords of trade, and they neglected their duties. In the "back country" of the Carolinas lawlessness and crime were actually encouraged by the inefficiency of the justices.

Renewal of Nonintercourse.—Resistance to this new manifestation of the imperial policy was even more wide-

McCrady,
II, Ch.
XXXII.

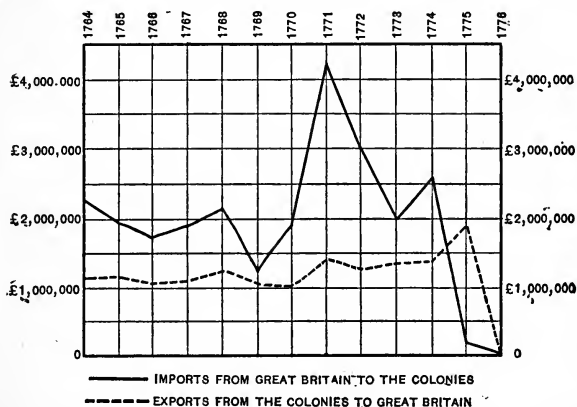
Bishop,
I, 372.

McCrary,
II, Ch.
XXXIV,
XXXV.

spread and systematic than that called out by the Stamp Act. The nonimportation movement of 1766 had been the work of individuals or of voluntary associations. The movement of 1767 and 1768 was sanctioned by political bodies and was therefore official. The men of Boston in town meeting assembled resolved that "the excessive use of foreign superfluities is the chief cause of the present distressed state of this town, as it is thereby drained of its money; which misfortune is likely to be increased by means of the late additional burdens and impositions on the trade of the Province, which threaten the country with poverty and ruin." Citizens were urged to abstain from the purchase of the taxed commodities. The General Court of Massachusetts indorsed Boston's action by the resolution that "this House will by all prudent means, endeavor to discountenance the use of foreign superfluities and to encourage the manufactures of this province." Similar resolutions were adopted by the legislatures of Connecticut, Virginia, New York, Maryland, and North Carolina. The artisans of Charleston under the lead of Christopher Gadsden assembled under the Liberty Oak and adopted nonimportation resolutions which were enforced by boycott of merchants importing English goods. More backward colonies, such as New Hampshire and Georgia, and more conservative, such as Rhode Island and Pennsylvania, entered into the movement later and under compulsion. Committees of correspondence and supervision kept watch upon imports and threatened refractory parties, whether colonies or individuals, with nonintercourse.

The agreement to abstain from the purchase of English goods was effectively maintained in the colonies where manufactures were sufficiently developed to supply immediate needs. The value of English goods imported into New England was £419,797 in 1768 and but £207,993 in 1769. New York imported £182,930 worth of goods in 1768 and but £74,918 in the following year. The patriots of Pennsylvania succeeded in reducing her imports from £432,107 in 1768 to £199,916 in 1769. But in the Southern colonies

the most strenuous measures could not prevent considerable clandestine trade. Planters' supplies were expressly excepted from the South Carolina boycott. Importation of English goods actually advanced between 1768 and 1769; in Maryland and Virginia from £475,984 to £488,362, in the Carolinas from £289,868 to £306,600, in Georgia from £56,562 to £58,340. The total falling off of £521,129 was, however, sufficient to produce a serious impression on



TRADE BETWEEN THE AMERICAN COLONIES AND GREAT BRITAIN
FROM 1764 TO 1776

English industries. A corresponding shrinkage of £191,248 in exports to the British Isles advanced the price of American goods to the English consumer and manufacturer. The experience of 1765 was renewed. The seaports and the factory towns sent remonstrances to the government and besieged the House of Commons with petitions. The ministry was finally obliged to yield. The Townshend Act was repealed (1770), but the tax of threepence a pound on tea was retained as evidence of imperial authority.

The Tea Tax.—Placated by the seeming victory, the agitators relaxed the boycott on English goods. The merchants gladly renewed their orders, and consumers rejoiced in the prospect of finer cloth than domestic looms

could produce. But the embargo on English tea was continued. It had been the policy of the government to assure a monopoly in this popular beverage to the East India Company. All teas destined for the colonies must pass through an English port and pay duty there *en route* to America. The colonists had been accustomed to evade this irksome regulation, and fully nine tenths of the million and a half pounds annually consumed in America was brought directly from Holland or the Orient. The restrictive regulation was now enforced, but to render this monopoly more palatable the tax of a shilling a pound, hitherto collected at the British customs houses, was remitted in case the tea was consigned to an American importer. The East India Company's-tea might thus pay the colonial duty and yet retail at a lower price than that charged for the smuggled article. The revenue anticipated (£16,000 per annum) would be but one fourth of the sum remitted in drawbacks, but the British government was determined to assert its authority despite financial loss. The colonists, on the other hand, were equally determined to vindicate their right to self-taxation. Three shiploads of tea arriving in Boston harbor in December, 1773, were boarded by a party of prominent citizens, and more than three hundred chests were thrown into the sea. At New York and Philadelphia the ships were not allowed to land their cargoes and were forced to carry the tea back to London. At Charleston the tea was taken from the consignees and stored in cellars where it moulded and became unsalable. Later importations were thrown into the harbor.

It was evident that the Americans objected to the tax on tea as strenuously as to the stamp tax, and that it could be collected only by force. Pitt and Burke urged conciliatory measures, but the king's ministers believed that there was no choice between the enforcement of the law and complete surrender. They determined on enforcement. Boston, where defiance had been most outspoken, was selected as an example. The port was declared closed (March, 1774) "because the commerce of his majesty's subjects cannot be

safely carried on there nor the customs payable to his majesty duly collected." Landing and shipping of merchandise after June first was forbidden, and men-of-war were detailed to maintain a blockade. The customs house was removed to Salem. Since the business prosperity of Boston depended almost wholly on commerce, the blow threatened her very existence.

The Boycott Complete. — The cause of the beleaguered city was immediately espoused all along the coast. Salem offered to Boston merchants the free use of her wharves and warehouses. Subscriptions for the relief of the unemployed of the stricken city were taken up in New York and Philadelphia. The planters of Virginia, Maryland, and South Carolina sent contributions of corn and rice. A solemn league and covenant was signed by patriotic citizens who bound themselves to abstain from all intercourse with Great Britain until the coercive legislation should be repealed. The Virginia Assembly (August, 1774) resolved that no English goods should be imported into that province after cargoes already ordered had been received. Vigilance committees were appointed to enforce this agreement, and offenders were to be blacklisted as the enemies of liberty. This third suspension of commerce with Great Britain was generally opposed by the merchants, who had learned by experience how heavy were the losses involved. In New York and Philadelphia, where the loyalist party was strong, opposition to the costly expedient was determined. These ports held a pivotal position. Their defection would destroy the effect of the boycott. The embargo policy was earnestly debated in the Continental Congress convened at Philadelphia in September. In the end a nonintercourse and nonconsumption resolution was adopted to take effect December 1, 1774. The prohibition covered all English goods, East India Company teas, wines that had paid duty in British ports, sugar and molasses from the British West Indies, and slaves brought to the colonies in British vessels. In case the protested grievances had not been redressed in the interval, exportation of colonial products to Great

McCrady,
II, 764-770.

Britain was to cease after September 10, 1775. (Rice was exempted from this embargo at the request of the South Carolina planters.) It was confidently expected that the inconvenience and distress occasioned in England by the loss of the colonial market would bring the government to terms. The boycott was more vigorously enforced than in 1765 or in 1768. English imports declined from £2,590,437 in 1774 to £201,162 in 1775, but without effect. The king and his ministers were convinced that to yield now would be to forfeit for all time the claim to imperial authority.

Nonexportation was attempted in due turn. This phase of the nonintercourse policy was even more difficult to enforce. In the determination to find a market for their produce, planters evaded the vigilance committees quite as skillfully as they had evaded the king's officers. Virginia sent £73,000 worth of tobacco to England in 1775, and the Carolinas and Georgia £25,000 worth of rice and indigo. This was, however, but one tenth of the exports of the previous year. The shrinkage in total exports between 1774 and 1776 amounted to £1,269,882. The sudden collapse of the American trade which had hitherto meant one third her maritime commerce, produced serious industrial disturbance in England, but the effect for the colonies was even more disastrous. Merchants were ruined, farm produce glutted the domestic markets, and workmen suffered, for many industries were at a standstill. On the very eve of the Revolution the accustomed supply of arms and ammunition was suddenly cut off.

Far from receding from the principle expressed in the Declaratory Act, Parliament proclaimed Massachusetts in a state of rebellion and ordered additional troops to America. The fishermen of New England were denied access to the Grand Banks. At the same time trade was interdicted between the rebellious colonies and all other ports than those of Great Britain, Ireland, and the British West Indies. Nine months later all intercourse with the colonies was prohibited. American vessels were declared forfeit when

Pitkin,
Hist. of U.S.,
I, 399, 500-
510.

Restraining
Act.
Macdonald,
368-374,
391-396.

captured. Their cargoes were liable to seizure, their seamen might be impressed into the royal navy. In the following March, the Continental Congress authorized American vessels to fit out as privateers and so to carry on an armed trade in defiance of the embargo. "The die is now cast," wrote the king. "The colonies must either submit or triumph." The colonists, on their part, were being driven to the conviction that nothing short of complete separation would insure their interests against prejudicial legislation.

Pitkin,
Hist. of U.S.,
I, 495-497.

Declaration of Independence.—The consistent endeavor of the British government to render the colonies a source of profit to the mother country had imposed intolerable shackles on industrial development. Colonial trade had been monopolized by British ships; colonial products had been limited to English ports; colonial manufactures had been restricted or suppressed. The fishing villages of New England were impoverished by the Sugar Act, and the rum distilleries stood idle. At the silent wharves of Boston the merchantmen lay accumulating barnacles in place of profits. In the forests of Maine and New Hampshire hundreds of mast trees, marked with the broad arrow that reserved them for the royal navy, rotted wastefully away. Again and again conflicts broke out between the surveyor general of the king's woods and the lumbermen who held by "swamp law." The farmers of New York and Pennsylvania had pushed their anti-rent agitation to the verge of violence. In the "back country" of the Carolinas the regulators, weary of misrule, had taken matters into their own hands and declared the county of Mecklenburg independent of Great Britain. The grievances of the colonists were not theoretical, but practical and urgent. One fourth of the signers of the Declaration of Independence were merchants or shipmasters. John Hancock, the first delegate to affix his signature to that momentous document, was known as the prince of smugglers. He was even then contesting suits in the admiralty courts that involved £100,000 in penalties.

Address to
the People
of Great
Britain.
Pitkin,
Hist. of U.S.,
I, 473-482.

Industrial Consequences

In the seven years' conflict that followed on the assertion of independence, the chances of success seemed about equally divided. England was handicapped by distance from the scene of war. Soldiers, arms, and equipment must be transported across three thousand miles of stormy sea. The mother country was, moreover, heavily burdened by an unprecedented national debt. Her resources in the way of taxes and customs revenue were, however, assured. She had a standing army in thorough training and the largest and best equipped navy afloat. The seceding colonies had no treasury and no navy. Their fighting force was made up of militia companies furnished in uncertain levies by thirteen distinct state governments. The troops knew little of army discipline and were seldom adequately provisioned; but the Americans were good marksmen, and they excelled the British in physical endurance and in the self-reliance developed by the vicissitudes of pioneer life. They had the great advantage of fighting over well-known country and under familiar conditions, an advantage fully offset, to be sure, by the material losses necessarily sustained in the country that must submit to the ravages of war.

The most serious weakness of the seceding colonies was their lack of union. The only central government was the Continental Congress,—a deliberative body with no constitutional authority to lay taxes or to levy troops. Congress might requisition men and supplies, but had not power to enforce compliance. Each state sent its militia into the field when its own boundaries were invaded, but was loath to furnish troops for a distant campaign. The taxes levied by the state legislatures were expended by the same authority. The states were slow to make over any of their scanty revenues to the general treasury. The ultimate success of the colonists was due to divisions and weakness in the mother country rather than to the strength of their own defense.

National Bankruptcy.—The long controversy had bred in the Americans a hearty abhorrence of taxation. The people

who had repudiated the authority of Parliament would not readily respond to the levies of the state legislatures. Both state and continental governments were obliged, therefore, to resort to the issue of bills of credit in order to meet the expenses of the initial campaigns. This easy method of meeting financial obligations had been discredited in the eyes of business men by previous experience of such issues and by the commercial advantages Massachusetts had derived from the resumption of specie currency. The mass of the people, however, were convinced that there need be no difficulty in giving this fiat money full purchasing power. It was cheap and convenient and would remain in circulation, whereas the unpatriotic British coins persisted in abandoning the country. Six of the colonies had already issued paper money before the outbreak of hostilities. When Congress assumed responsibility for the general defense, the New York Assembly forwarded recommendations for the issue of bills of credit, "since it is clearly impossible to raise any sum adequate by tax." "Do you think," argued one of the delegates in the Continental Congress, "that I will consent to load my constituents with taxes when we can send to our printer and get a wagon-load of money, one quire of which will pay for the whole?"

In June, 1775, one week after the appointment of the commander-in-chief of the Continental army, Congress authorized the issue of \$2,000,000 in bills of credit. These notes entitled the bearer to receive a given number of Spanish milled dollars at a time and place not specified. The responsibility for redeeming the notes was distributed among the several colonies in proportion to population. Each colony was to meet its respective obligation in four annual payments dating from November 30, 1779. Another \$1,000,000 was issued in July and \$3,000,000 more before the end of the year. Early in 1776, when news came that the English government was to send over foreign mercenaries, still greater appropriations were called for. Congress had ordered the issue of \$14,000,000 before the Declaration of Independence was signed. The bills, imperfectly guar-

Bolles,
Financial
Hist. of U.S.,
I, Bk. I,
Ch. III,
IX, X.

Webster,
Political
Essays, 8.

Dewey,
Ch. II.

White,
Money and
Banking,
Bk. II,
Ch. II.

Sumner,
Hist. Am.
Currency,
43-54.

anted and bearing no interest, were less acceptable to government creditors than specie, and Congress, well aware that further issues would weaken public confidence in the redeemability of the notes, cast about for other means of meeting military expenses.

In October, 1776, a loan was authorized. Bonds were issued to the amount of \$5,000,000 bearing interest at the rate of four per cent. They did not find a ready sale. The rate of interest was too low and the credit of the government too uncertain to render this an attractive investment. Later bond issues bore six per cent interest, but capitalists were loath to risk their money on so dubious a venture. Benjamin Franklin succeeded in borrowing \$6,000,000 from France, and John Jay undertook to secure aid from the Spanish government; but less than \$35,000,000 was derived from loans at home and abroad. In November, 1776, Congress had resort to the then entirely honorable expedient of raising money by a government lottery. One hundred thousand tickets were printed and placed on sale. The sanguine authors of this scheme hoped to secure \$1,500,000 in specie, but the prizes, treasury certificates payable in five years with interest at four per cent, were not sufficiently alluring to delude many into taking lots. In December of this same year Congress requested the state legislatures, with whom the taxing power then rested, to raise the much-needed revenue from their several constituencies. But the state authorities had their own expenses to meet and had reason to dread the storm that might follow an attempt to levy taxes. No more than \$6,000,000 was ever derived from the state requisitions. Congress then recommended the state governments to confiscate the property of British sympathizers to the needs of the Revolution and to authorize the payment of debts due British merchants into their own treasuries and in paper money. Some \$16,000,000 were secured in this unworthy fashion.

In October, 1778, when \$63,000,000 in bills of credit had been issued and one dollar in specie was worth five in paper, Congress, finding this a costly method of provisioning the

Dewey,
47.

Sabine,
Loyalists of
Am. Rev.,
I, Ch. XI,
XII.

army, urged the several states to furnish supplies in kind. Virginia was requested to contribute twenty thousand barrels of Indian corn. The Northern states sent flour, beef, rum, and hay. The cost of transporting these stores was often unnecessarily great since the army might be distant from the source of supply, and the device was soon abandoned. The state governments did, however, authorize the commissioners to seize food, fuel, and clothing wherever needed, giving certificates of indebtedness in exchange. This most irritating and unequal form of requisition was only justified by the extremities to which the army had been reduced in the previous winter at Valley Forge. It was a hand-to-mouth policy and placed the American authorities in unfortunate comparison with the British commissariat where supplies were purchased in good gold and silver coin.

All other expedients proving inadequate, Congress was finally forced to fall back on the emission of bills of credit. In the first eight months of 1779, \$100,000,000 were issued, and the purchasing power of the paper dollar declined from one sixth to one twentieth that of specie. In September Congress, aghast at the prospect of further depreciation, resolved to limit the total issue to \$200,000,000 and addressed a circular letter to the American people stating the guarantee for the ultimate redemption of the notes. John Jay argued that the fulfillment of this obligation was pledged on the faith of the confederated states, each of which had assumed its due portion of the debt. The resources of the country were limitless. Population was increasing with extraordinary rapidity. The tax-paying capacity of the states would be amply sufficient to meet the payments before they fell due. Even though the war debt should amount to \$300,000,000, the quota falling upon the individual citizen would be slight. It was inconceivable that an obligation assumed under circumstances so solemn and compelling should ever be repudiated. "A bankrupt, faithless republic would be a novelty in the political world. . . . The pride of America revolts from the idea; her citizens know for what purposes these emissions were made, and

Public
Papers of
John Jay,
I, 218-236.

have repeatedly plighted their faith for the redemption of them ; they are to be found in every man's possession, and every man is interested in their being redeemed." Eloquent and forceful as was the appeal, it could not stay the decline in value of the currency. Before the end of the year a paper dollar was worth but two or three cents in specie, and Congress had been obliged to issue notes up to the \$200,000,000 limit. No further issues were authorized.

The forty several emissions of Continental currency amounted to \$241,552,780, but since notes were occasionally canceled, no more than \$200,000,000 were in circulation at any one time. In this respect, therefore, Congress kept to its resolution. Not so with the pledge to redeem. The notes were never taken up at their face value. In November, 1780, when the bills were exchanging for specie at one hundred to one, Congress recommended the states to recall them in exchange for bills of new tenor at the rate of forty to one. Some \$119,400,000 were thus canceled. In 1790, \$6,000,000 more were taken at the United States Treasury in payment on government bonds at the rate of one hundred to one. The remaining \$75,000,000 were lost or destroyed as worthless paper. The depreciation of the Continental currency was accelerated by state issues to the amount of \$209,524,000. These bills circulated quite as freely as the congressional notes, and brought the volume of currency up to \$450,000,000, a grand total greatly in excess of the business needs of the country. The decline in purchasing power had been due almost as much to excessive issue as to the lack of confidence in the ultimate redemption of the notes.

The effect of meeting the military emergency by credit money was equivalent to a heavy and unequally distributed tax, the greater part of which was borne by the immediate creditors of the government. The obligations represented in bills of credit, loans, and certificates of indebtedness, amounted to \$650,000,000, fully one third of which was repudiated. If specie had been available, the cost of the war might have been met by an expenditure of \$135,693,000.

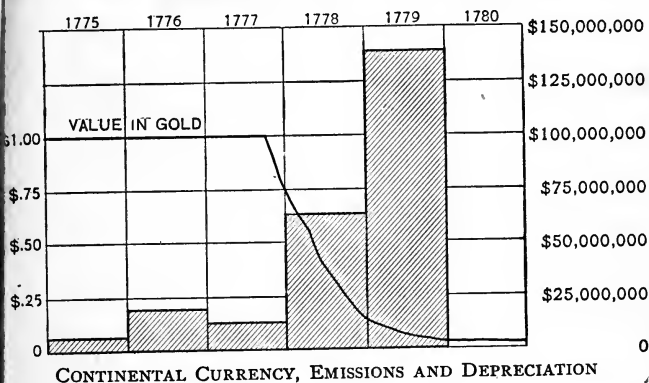
Schuckers,
Revolution-
ary Finances,
125.

Sumner,
Hist. Am.
Currency,
55-60.

Pitkin,
Stat. View,
26, 27.

Bolles,
II, Bk. I,
Ch. III.

It would be difficult to prove that the central government, as then constituted, could have met the financial emergency in any other way. The debates of the period show a full recognition of the dangers of the road on which the government had entered. The limit of \$200,000,000 was set for the emission of Continental currency as the point that might not be passed in safety. Congress repeatedly protested against further state issues and besought the state assemblies to



withdraw their bills from circulation, but in vain. The state authorities were in equally serious straits and quite as unable to get back to a specie basis. Desperate efforts were made to sustain the value of the paper money. In vain Congress solemnly resolved that "any person who shall hereafter be so lost to all virtue and regard for his country as to refuse the bills or obstruct and discourage their currency or circulation, shall be deemed, published and treated as an enemy of the country, and precluded from all trade and intercourse with its inhabitants." The most loyal adherent of the Revolution would not receive the bills at par. In vain the states declared the bills legal tender in payment of all debts, public and private, and imposed heavy penalties on persons refusing to receive them. Men preferred forfeiting their property outright to receiving worthless bills in exchange. In vain did price conventions undertake to check the rise of prices

by fixing on a maximum limit for wages of labor, boat and carriage fares, inn charges, prices of manufactures, farm produce and imports. The scale had to be advanced from year to year to keep pace with the decline in the value of money, until the rates of 1780 were twenty times the price prevailing in 1774. Even so it was impossible to enforce the legal tariff. Farmers would not bring their produce to market nor would merchants import goods to be sold for depreciated paper. Finally men abandoned the use of money altogether and had resort to barter. When, in the last years of the war, the specie brought in by the English army and the French fleet came into general circulation the Continental currency disappeared, and prices dropped to the former level, in accordance with an economic law stronger than any statutory enactment.

Bolles,
I, Bk. I,
Ch. XI, XVI.

Writings of
George
Washington,
VII, 291.

Writings of
Washington,
VII, 388.

Public
Papers of
John Jay,
I, 230.

The depreciation of the currency had a demoralizing effect on business relations. Debtors were enabled to meet their obligations in legal tender worth but a fraction of the value received. Trustees defrauded their charges by paying over their remittances in paper. Speculators trafficked in money of varying values, clearing profits off the fluctuations from time to time and from place to place, and thus made fortunes out of the national disgrace. The extraordinary advance in prices was regarded as sufficient justification for the intimidation of merchants and the forcible seizure of goods. "Speculation, peculation, engrossing, forestalling," wrote Washington, "afford too many proofs of the decay of public virtue. . . . Nothing, I am convinced, but the depreciation of our currency . . . aided by stock-jobbing and party dissensions, has fed the hopes of the enemy."

Commercial Gains and Losses.—With the achievement of independence, American trade was set free from the restraints imposed by England's colonial policy. Immense benefits were anticipated from this emancipation. "Our commerce," wrote John Jay, "was then confined to Great Britain. We were obliged to carry our commodities to her market and, consequently, sell them at her price; we were compelled to purchase foreign commodities at her stores

and on her terms and were forbidden to establish any manufactures incompatible with her view of gain. In future the whole world will be open to us, and we shall be at liberty to purchase from those who will sell on the best terms and to sell to those who will give us the best prices." These hopes were not immediately realized. The nonintercourse policy had involved merchants and shipowners in financial embarrassment. Parliament's prohibition of American trade, first with foreign countries and then with the British dominions, had been rigorously enforced by an effective navy, and commercial ventures were abandoned because the risks were greater than the chances of profit. Many merchants took out letters of marque and reprisal and armed their vessels. Three or four hundred privateers rendered valiant service throughout the war, defending our coasts and attacking merchantmen and men-of-war flying the Union Jack on the high seas. Some six hundred prizes fell to their share, and the prize money went far toward offsetting the losses of our merchant marine.

Throughout the colonial period the major part of our transatlantic trade had been with Great Britain and the British West Indies. Independence deprived us of the commercial advantages hitherto accorded American vessels in British ports, and this commerce received a serious check. Pitt, the constant friend of America, proposed (1784) that the commercial relations between Great Britain and the United States be established on the principle of reciprocal benefit. American ships were to be admitted on the same terms as those of any independent nation, and the goods brought in should be subject only to such duties as were imposed on goods from the British colonies. This wise and liberal policy was set aside because protested by the English shipping interest. It was urged that American vessels, built more cheaply and manned more easily than were their British competitors, would soon secure the whole Atlantic trade, and that the United States was likely to become a more dangerous rival than Holland had been. British subjects were forbidden to purchase American-built ships. Not only were

Maclay,
Pt. I,
Ch. IV-XVI.

Pitkin,
Hist. of U.S.,
II, 186.
Marvin,
Ch. III.

Sheffield,
Am. Commerce,
I-6, 134-218.

Sheffield,
107-132.

American vessels classed as foreign under the Navigation Act, but the seceded territory was treated as thirteen distinct states, and an American vessel was excluded unless her cargo consisted of the products of the particular state where her owners resided. Even so our ships might transport to England only naval stores. These restrictions proved a severe blow to the carrying trade. In 1783 an order in Council denied American vessels access to the ports of the British West Indies under any conditions, and forbade the importation of fish, beef, and pork from the United States even when carried in English ships. More than one third of the vessels clearing from Boston and New York in the decade before the Revolution had sailed for these ports. Under the new regulations American merchants forfeited trade worth \$3,500,000 a year. To the planters of Jamaica and the Bahamas this arbitrary prohibition was nothing less than disaster. Fifteen thousand slaves died of starvation in the next four years.

Other business interests experienced the ill effects of separation. Exports, such as indigo, naval stores, and pig iron dwindled because of the withdrawal of the bounties formerly paid by the British government. In place of this stimulus duties levied in the English ports actually checked the exportation of these articles. The shipbuilders, too, lost their best market, and the whalers were no longer on an equal footing with their British competitors. Free trade with the French and Spanish West Indies, with Europe and the Orient, could not immediately compensate American shipmasters and producers for the loss of the English market.

Pitkin,
Hist. of U.S.,
II, Ch. XVII.

The Congress of the Confederation attempted to negotiate a commercial treaty with Great Britain that should secure more advantageous terms, but these overtures were rejected. British merchants were well content with the trade regulations enacted by their own government, and English statesmen openly denied the ability of Congress to enforce any commercial agreement upon thirteen unruly states. In other directions Congress was no more successful in protecting the commercial interests of American citizens.

Spain claimed proprietorship in both banks of the Mississippi and, by consequence, the monopoly of trade along that important waterway. The attempt to negotiate a treaty giving American vessels equal rights failed. The settlers west of the Alleghanies bitterly protested the surrender of their only means of reaching a market, and plotted secession. Negotiations with other European courts came to little result. Said Washington, "We are one nation to-day, thirteen to-morrow, who will treat with us on these terms?"

Conflicting commercial legislation was the inevitable result of the diverse interests of the states. Massachusetts and New Jersey originally declared for free trade in the interests of commerce. Virginia continued to levy an export duty on tobacco and an import duty on liquors as the easiest means of securing a revenue. Pennsylvania, Rhode Island, and New York, and eventually Massachusetts, laid heavy taxes on foreign luxuries, such as wines, tea, coffee, sugar, and furs, in the interest of revenue, and imposed duties on certain manufactures in order to protect domestic industries against English competition. New York and Pennsylvania discriminated against foreign (especially British) traders by doubling the duties on goods imported in British vessels. Interstate commerce, *e.g.* in tobacco, was subjected to imposts. The Atlantic coast was thus divided into thirteen distinct customs districts, each pursuing an independent policy. The state authorities not infrequently came into conflict as to the limits of their respective jurisdictions. Virginia and Maryland were at loggerheads over the navigation of the Potomac. Pennsylvania and Delaware disputed control of the Delaware River. Soon it became evident that Congress could not bring Spain and Great Britain to terms nor negotiate other commercial treaties without power to make and enforce uniform regulations.

Development of Manufactures.—Independence put an end to the restrictions imposed by Parliament on American manufactures. Woolen cloth and beaver hats could now be sent to any market at home or abroad. Slitting mills, foundries, and steel furnaces might be erected without let

Hill,
First Stages
in U. S. Tariff
Policy,
490-527.

Pitkin,
Stat. View,
Ch. II.

Swank,
Ch. LVI.

or hindrance. The nonimportation resolutions and the embargo combined to stop the inflow of foreign goods, and the special demands created by the war gave extraordinary stimulus to certain industries. Cannon, muskets, anchors etc., no longer to be had from England, were wrought in the foundries of East Bridgewater, Canton, Springfield, and Easton, Massachusetts. Considerable steel was made into muskets at Lancaster, Pennsylvania, and at Trenton, New Jersey. The Sterling works cast the guns for the battleship *Constitution* and the links of the iron chain that was stretched across the Hudson at West Point as a barrier against the British fleet. At the Principio works in Maryland, the English owners having lost control, cannon balls were cast for the use of the Continental army. The fact that the Washington family held one-twelfth interest in the plant may have determined this patriotic service.

U.S. Census,
1900,
IX, 532.

Salt was another necessity that had now to be produced at home, the supply from Portugal and the West Indies being cut off by the war. The salt works along the New England coast immediately doubled their capacity. Tanks for boiling the brine were set up at New Bedford and on the "back side" of Cape Cod. The salt wells of Onondaga County, New York, long known to explorers and pioneers began to produce for the market in 1788.

Bishop,
I, 383-423.
Bagnall,
I, Ch. III.

The textile industries experienced no slight advantage from the decade during which domestic manufactures had the monopoly of the American market. Clothing for the army as well as for ordinary wear was made up at home. Many a militiaman went to the war clad in a suit made of wool shorn from his own sheep, spun and woven and fashioned by the women of his household. Production on a scale to fill the place of the accustomed imports requires greater skill, better implements, and more raw material. Governor Colden of New York had reported to the Board of Trade in 1765 that "all the wool in America is not sufficient to make stockings for the inhabitants," but systematic effort had increased the supply to the point of meeting immediate need in the decade following. The

Weeden,
II, 732-734.





New York society for the "Promotion of Arts, Agriculture and Economy," offered premiums for linen yarn, linen cloth, woven stockings, etc. The sum of £10 was proposed for the first three stocking frames of iron that should be set up in the colony, a medal for the first flax mill run by water power, and £30 for the first bleaching field. At the Manufactory House on Tremont Street, Boston, a spinning school was opened where expert mistresses taught this useful and popular art. William Molineux, the director, boasted that they had "learned at least three hundred children and women to spin in the most compleat [*sic*] manner." A dozen looms were kept busy weaving woollens, linen, buckram, and sail cloth. A bleaching yard, fulling mill, and dye works were operated on the same premises. The occupation of Boston by British troops and the subsequent siege ruined this enterprise. The American Manufactory set up at the corner of Ninth and Market streets, Philadelphia, employed some five hundred people in making linen and woolen cloth. The yarn was supplied by women who spun at their own homes the flax and wool furnished them by the company. The business was suspended with the British occupation; but another Philadelphia factory, established by Samuel Wetherill, successfully filled a large contract for army clothing, woven and made up in the same shop. Reading and Lancaster were also important manufacturing centers. In New Jersey there were forty-one fulling mills for finishing the cloth woven in the farmhouses, but no factories. The linen and woolen factory of Baltimore, opened in 1776, was granted a subsidy by the state legislature. Several private enterprises were soon established. Everywhere north of the Chesapeake the output of linen and woolen cloth was sufficient for domestic needs. Farther south the native cotton was the only available fiber, and spinning wheels and looms were scarce. Nevertheless, the patriotic managed to clothe themselves and their slaves with homespun, and a considerable industry was developed. In 1786 Jefferson wrote to a friend: "The four southernmost states make a great deal of cotton. Their poor are almost

entirely clothed with it in Winter and Summer. . . . The dress of the women is almost entirely of cotton manufactured by themselves, except the richer class, and even many of these wear a good deal of home-spun cotton. It is as well manufactured as the calicoes of Europe."

The Farmer's Opportunity. — Certain agricultural interests suffered from the withdrawal of the British bounties. The turpentine industry felt the effect of falling prices. The indigo planters were ruined. Lumbermen discovered that full license to fell the finest trees hardly compensated for the failure of the British bounties. These losses were eventually made good by the opening of new markets in Europe and by the increase in the domestic demand consequent on the rapid growth of population. For the rice and tobacco planters, the removal of all restraint on the destination of their exports was an unqualified advantage.

Of even greater importance to the agricultural future of the country was the abolition by the state legislatures of every vestige of feudal land tenure. The agitation was begun by Thomas Jefferson in Virginia and was taken up by the democratic leaders of the other Southern states. Primogeniture no longer determined the line of inheritance and perpetuated great estates. Entail and all other restraints on the transfer of landed property ceased. The payment of quitrents was no longer required, and the fee simple titles became absolute and unconditioned. The rights of the proprietors to the unsettled districts of Pennsylvania and Maryland terminated, and these estates, together with the crown lands, lapsed to the state. It was the policy of the new authorities, representing directly the interests of the people, to put the public lands as speedily as might be into the possession of bona fide farmers. The revenue to be derived from sales and from ultimate tax-bearing capacity was more secure than any that might be had from quitrents.

The Antislavery Movement. — The importation of African slaves had been regarded as a temporary necessity that would cease when immigration and the natural growth of

Sato,
Land Question in U.S.,
273-277.

Randall,
Life of
Jefferson,
I, 194-229,
397-400.

Dubois,
Suppression
of the Slave
Trade,
Ch. II-V.

population should render the supply of white labor sufficient. Even in the Southern colonies where slave labor was evidently profitable, it was keenly felt that the planter's money gain was more than offset by the social and political evils that might accrue to the community. South Carolina, Maryland, and Virginia had each attempted to restrict the importation of slaves by laying customs duties, sometimes so high as to be prohibitory. Any serious check on the slave trade was, however, quite inconsistent with British policy, and adverse legislation was promptly vetoed. The Royal African Company was importing annually (1713-1733 from) five to ten thousand slaves to the American colonies and its stockholders had great social and political influence. After the monopoly was withdrawn, private merchants urged the continuance of this highly profitable trade. Virginia imposed a duty of £5 in 1710, but the bill was rejected by Governor Spotswood because of the check on importation. Similar bills passed the House of Burgesses in 1723, 1766, and 1769, only to be disposed of by veto. South Carolina laid import duties ranging from £10 to £100 and proposed to devote the revenue collected to defraying the expense of bringing in white servants. In 1760 the legislature passed a law forbidding the importation of slaves into this colony; but the act was disallowed by the Privy Council, and the governor who had signed it was reprimanded. In 1772 the Virginia Assembly addressed a protest to the king. "The importation of slaves into the colonies from the coast of Africa hath long been considered as a trade of great inhumanity, and under its present encouragement, we have too much reason to fear will endanger the very existence of your majesty's American dominions. . . . Deeply impressed with these sentiments, we most humbly beseech your majesty to remove all those restraints on your majesty's governors of this colony, which inhibit their assenting to such laws as might check so very pernicious a commerce."

McCrary,
II, Ch. XIII,
XX.

Tucker,
Dissertation
on Slavery,
43.

In the Northern colonies the economic as well as social and political advantage was with free white labor, and but few slaves were held. The trade in slaves was, however, a

highly profitable one. Duties were levied at the ports both for revenue and to discourage importation, but the trade was left untrammelled by the provision that the duty should be remitted in full when the slave was reëxported. Boston and Newport and other New England ports became open slave marts where slaves brought from the Gold Coast were held until a suitable market should be found.

The struggle for independence wakened a keener appreciation of human rights. Slavery had long been protested by the Society of Friends on religious grounds. The protection given to the slave trade by Great Britain was resented as an ugly phase of her selfish colonial policy. Virginia, in her nonimportation resolutions of 1769, had recommended that merchants import no slaves and purchase none imported until the Townshend Acts should be repealed. The nonimportation movement of 1774 called out declarations from both Virginia and North Carolina against the further importation of slaves. Massachusetts (1771 and 1774) and Delaware (1774) undertook to prohibit importation, but their bills were vetoed by the royal governors. The Rhode Island Friends succeeded in securing a law forbidding the importation of negroes; but a permissive clause allowed vessels belonging to that colony to bring in slaves that could not be sold in the West Indies, provided the master gave bond to deport every such slave within the year. Connecticut alone achieved absolute prohibition of the slave trade (1774) before the war. On October 15, 1774, the Continental Congress, in behalf of all the colonies, resolved: "We will neither import nor purchase any slave imported after the first day of December next; after which time we will wholly discontinue the slave trade, and will neither be concerned in it ourselves nor will we hire our vessels nor sell our commodities or manufactures to those who are concerned in it." This remarkable statement called out little comment except in Georgia. There the planters put up a strong opposition, and the ratification of the agreement was delayed until the threat of a boycott forced the laggard colony to fall into line. On April 3, 1776, Congress voted

that no slave "be imported into any of the thirteen colonies." This prohibition marks the high tide of the anti-slavery movement.

In the original draft of the Declaration of Independence the king of Great Britain is charged with waging "cruel war against human nature itself, violating its most sacred rights of life and liberty in the persons of a distant people who never offended him, captivating and carrying them into slavery in another hemisphere, or to incur miserable death in their transportation thither. . . . Determined to keep a market where men should be bought and sold, he has prostituted his negative for suppressing every legislative attempt to prohibit or to restrain this execrable commerce." Spite of the great influence of Jefferson and the efforts of the Virginia and Massachusetts delegates, this denunciation of the slave trade was struck out of the final form, "in complaisance to South Carolina and Georgia, who had never attempted to restrain the importation of slaves, and who, on the contrary, still wished to continue it. Our northern brethren also, I believe, felt a little tender under those censures; for though their people had very few slaves themselves, yet they had been pretty considerable carriers of them to others."

Writings of
Jefferson,
I, 28, 34.

The basis for this accusation of complicity was soon removed. In the years immediately following on the adoption of the Federal Constitution, the Northern states without exception barred the slave traders from their ports. Within a generation the shadow of slavery passed from the North. Massachusetts, in 1780, abolished slavery within her jurisdiction. Before the close of the eighteenth century, gradual emancipation had been ordained by law in all the New England states, as well as in New York and Pennsylvania. The emancipation movement found expression in the generous offer made by most of the Northern states of full and complete freedom to any negro or indentured servant who would enlist for service in the Continental army. Congress undertook, at Washington's urgent request, to recoup the masters of enlisted servants, by grants from the public domain. One

of the important effects of the Revolutionary War was to convert a considerable number of emancipated slaves and indentured servants into free laborers and farmers.

The Conquest of the Ohio Valley

Roosevelt,
I, Ch. V, VI,
VII.

Winsor,
The West-
ward Move-
ment,
Ch. IV, VI.

Imlay,
Description
of Western
Territory.

Semple,
Ch. IV.

Hulbert,
Braddock's
Road,
Ch. VI, VIII.

The struggle for independence had two distinct phases. The first and best known, the revolt against British rule, was the work of the Atlantic coast colonies; the second and hardly yet appreciated, the winning of the western territory, was the achievement of the pioneers who pushed across the mountains and took possession of the country drained by the streams that empty into the Mississippi. North of the Ohio River and south of the Tennessee, two great Indian confederacies held sway, the Iroquois and the Cherokee. Between these hostile "nations" lay a debatable country which no Indian tribe dared claim. A rich, heavily forested region, teeming with game, it was frequently raided by hunting parties seeking deer, elk, or buffalo, or by war bands in pursuit of human prey; but the aborigines planted nothing more substantial than summer camps within the "dark and bloody ground." This unoccupied territory was the path of least resistance for the impending westward movement of white civilization. It was claimed by Virginia in virtue of the "sea to sea" grant made to the London Company by James I, but the paper title would have counted for little had not the land been peopled by Virginians. The fact that the most practicable mountain passes opened from Virginia gave her citizens first entry into the new territory, and thus she became the mother of the first commonwealths beyond the mountains. From the Great Valley four natural highways led across the Alleghanies: up the Potomac to Fort Cumberland, over the pass and down the Youghiogheny to the Monongahela, and so down to Fort Pitt and the Ohio, and thence by raft, keel boat, or schooner to the Falls. This last portion of the route was speedy but hazardous, for the river was treacherous except at high water, and hostile Indians

lurked in the forests of the northern shore. The Greenbriar and Kanawha cut a second pass over which, the rivers being impracticable, a road was later built into the heart of Kentucky. But most of the men who crossed the mountains in the Revolutionary period chose the path over Cumberland Gap. This route was comparatively free from Indians and practicable at all seasons. The Tennessee River, navigable from its source in Holston Valley till it empties into the Ohio for boats of light draft, as scows and dugouts, made another highroad into the wilderness; but this river was far more difficult than the Ohio, and its banks were infested by Indian freebooters, the Chickamaugas. Nevertheless this was the usual route into the southwest territory.

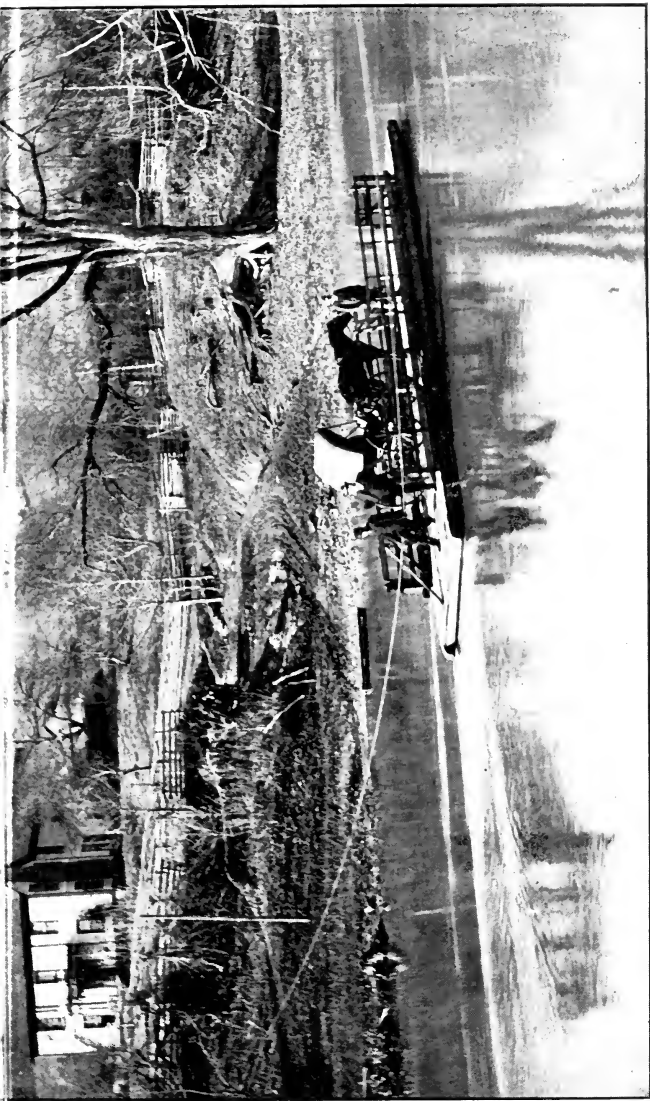
Hulbert,
Boone's
Wilderness
Road.

The Backwoods Settlements. — Adventurous hunters, French and Spanish Creoles, as well as Americans, had penetrated the wilderness beyond the mountains in pursuit of game and pelts. Indefatigable traders from Philadelphia and New York floated their merchandise down the rivers and followed the buffalo trails far into the interior, carrying on stout pack horses the rum, firearms, and trinkets that were to be exchanged at fabulous profit for skins and furs. Surveyors, sent out by state authorities or by land speculators, ran their boundary lines through the primeval forest with infinite toil and no little danger. Since each party worked quite independently, their surveys resulted in an inextricable tangle of conflicting claims. None of these, however, were settlers. They but prepared the way for the real westward movement. The coming of the pioneer farmers, the men who proposed taking up land and building homes, coincided with the epoch of the Revolution. By 1770 tide-water Virginia was full to overflowing. The "back country" of the Blue Ridge and the Shenandoah was fully occupied. Even the mountain valleys of the Yadkin, the Watauga, the French Broad, and the Holston were claimed by colonies of sturdy pioneers. Before the Declaration of Independence the oncoming tide of home seekers had reached the crest of the Alleghanies.

Roosevelt,
I, Ch. X,
XII; II, Ch.
VIII, XI.

The invading wave gathered in its tide men of diverse races and conditions. Scotch, Irish, and Germans moved south along the Great Valley from Pennsylvania or up the sea-going rivers from Charleston. Dutch from the Hudson, Swedes from the Delaware, Huguenots from the port towns "followed the immigration." Every man who felt the need of elbowroom and had pluck and muscle for the vicissitudes of the frontier, ventured his fate in *Ken-ta-ke*. Younger sons of planters seeking land, redemptioners who had served their terms and others escaped from service, political offenders and ne'er-do-weels, outlaws of every type, sought a chance to better their fortunes in the new world beyond the mountains. The adventure was as great as that made by the first settlers at Plymouth and Jamestown. The journey across the Appalachians was quite as serious an obstacle as the transatlantic voyage. The costs were no less and the dangers far greater. The men and women who had the hardihood to make this trip, by foot or on pack horse, over the Indian-haunted trails, were steeled for the multiform adversities of the backwoods.

The first permanent settlement in Kentucky was financed by the Transylvania Company, a business association organized by Richard Henderson, a surveyor from North Carolina, a "man of no inconsiderable abilities and more enterprise." He secured title to the region between the Kentucky and the Cumberland rivers by treaty with the Cherokees (March 17, 1775) and immediately sent a party of thirty men under guidance of Daniel Boone, the famous hunter and surveyor, to clear a trail from the Holston to the Kentucky and to build there a palisaded fort. On the 20th of April, 1775, Henderson arrived in Boonesborough with the bulk of the colonists. There he opened a land office and proceeded to grant farms in tracts of four hundred acres and upwards. Henderson anticipated a revenue from quitrents due on the land and from the trade that would develop with the settlements, but he was disappointed. The unruly pioneers refused to pay rent, and the Virginia authorities protested his Indian title. The Transylvania Company



BOONE'S FERRY



came to grief, but the grants made to actual settlers were confirmed in fee simple by the legislature of Virginia three years later.

Three other settlements were founded in Kentucky in 1775, Harrodstown, Boiling Spring, and St. Asaphs or Logan's Station. In 1779 John Robertson, the leading spirit of the Watauga colony, led a migration along the Cumberland River to the Bluffs and there founded Nashboro. Every such settlement centered in a palisaded village where the families were housed during the Indian raids. Each settler felled the trees, planted corn, and built a log hut in the land assigned him; but the cabins in the isolated clearings could not be defended against serious assault.

Imlay,
149.

Indian Wars.—Ever since the acquisition of this territory in 1763, it had been the policy of the British government to withhold the lands from settlement in the interest of the fur trade. Now that the settlers were also rebels, a systematic effort was made to drive them back to the seaboard. Cameron, the representative of King George on the Carolina frontier, incited the Cherokees to take the warpath against the invaders, and throughout 1776 the border settlements were ravaged by fire and tomahawk. The Watauga men, aided by militia from Virginia, North and South Carolina, and Georgia, finally succeeded in forcing the tribes to make peace and to yield a considerable portion of their lands to the Americans. Thenceforth the pack trains of the pioneers traveled the Wilderness Road free from the fear of molestation.

Roosevelt,
I, Ch. XI;
II, Ch. I-V;
III, Ch. II,
VII;
IV, Ch. I, II.
Winsor,
Westward
Movement,
Ch. VIII,
XII.

In Kentucky the contest against the Indians and their British allies proved an even more serious affair. Hamilton, the British commander at Detroit, supplied the Iroquois with arms and bribed them to raid the American outposts. No frontier settlement from Fort Pitt and Fort Henry on the Ohio, to the palisaded villages of Kentucky, was exempt from their cruel assaults. The ferocity of the savages was matched by the fury of the backwoodsmen, many of whom cherished an hereditary hatred of England, most of whom had lost wife or child or friend through this latest

development of British policy. All the toil and suffering that had gone to the building of the frontier settlements seemed likely to end in ruin when Colonel George Rogers Clark, the most adroit of Indian fighters, determined to carry the war into the enemy's country. Having secured funds and ammunition from Patrick Henry, then governor of Virginia, he issued a call for volunteers. The mother state could spare no men, but the "long hunters" of the frontier found here their opportunity to pay off old grudges, and they rallied to Clark's standard at Fort Pitt. Four companies of picked men with their equipment floated down the Ohio to the mouth of the Tennessee, and there, disembarking, they marched overland to the French settlements on the Kaskaskia and the Wabash. Taken by surprise, the *habitants* surrendered without a blow. They were quite as well content to be "congress men" as king's men, since both were alien powers. The Indian chiefs, gathered at Cahokia, were overawed by the prowess of the "long knives," and Clark's diplomacy soon persuaded them to make peace with the Americans. Hamilton, then in winter quarters at Vincennes, preparing an attack on Fort Pitt, was caught off his guard and forced to yield his little garrison (1778). Thus Congress became the dominant power both north and south of the Ohio, and thus, when five years later peace was made with Great Britain, all the British territory between the Great Lakes and the Floridas was ceded to the United States.

Peace and Prosperity.—The country once freed from danger of Indian outrage, settlers crossed the mountains "in shoals." Twelve thousand people came out in 1784 to Kentucky alone. When the first United States census was taken, fifteen years after the building of Boonesborough, there were more than seventy thousand whites in Kentucky and thirty-five thousand odd in Tennessee. There were probably in 1790 four hundred thousand settlers on the rivers that flow into the Mississippi.

North Carolina opened a land office in the Watauga Valley in 1778 and offered farms on easy terms. Every head of a family might take up six hundred and forty acres

Roosevelt,
II, Ch. VII, X,
XII; III, Ch.
I; IV, Ch. V.

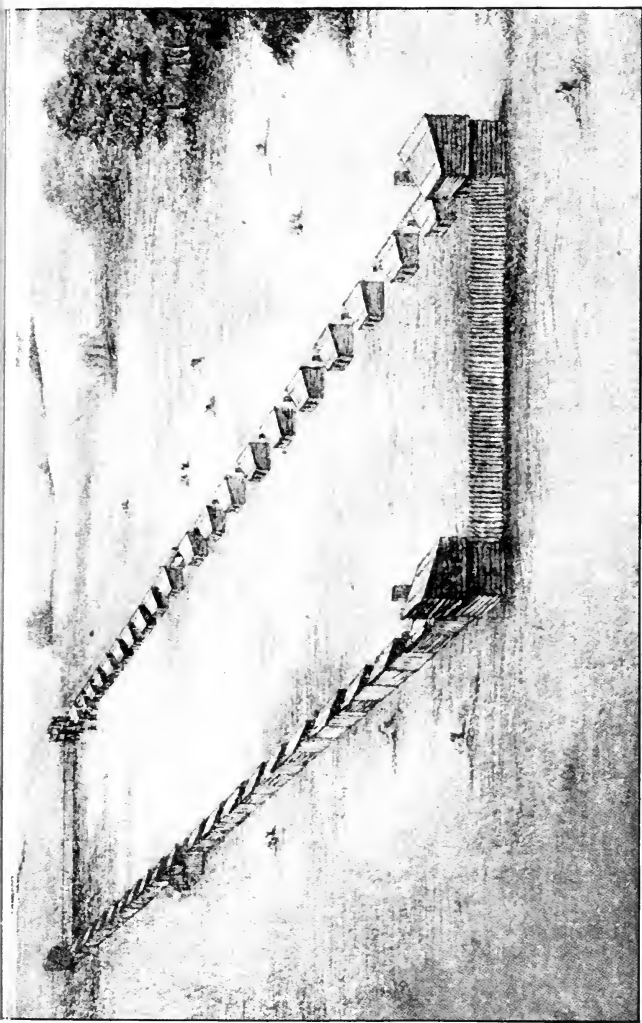
Chart, Dist.
of Popula-
tion in 1790,
p. 133.



on his own account, one hundred for his wife, and one hundred for each child. The price was \$10 per hundred acres; but since this might be paid in depreciated currency or set off against military service, the settlers had no difficulty in securing full title. Virginia (1779) offered the Kentucky pioneers four-hundred-acre tracts at the rate of \$2.50 per hundred, on condition that a house should be built and corn planted within the year. Every man who could prove such a "cabin right" had a preëmption claim to one thousand acres more at a cost of \$40 per hundred. Clark's men were rewarded in bounty lands north of the Ohio, three hundred acres each. The arrears of pay due the soldiers of the Continental army were made good in the same inexpensive fashion.

Imlay,
150-153.

A contemporary writer has left a careful statement of what such a pioneer might accomplish. "A log-house is very soon erected, and in consequence of the friendly disposition which exists among those hospitable people, every neighbor flew to the assistance of each other upon occasions of emergency. Sometimes they were built of round logs entirely, covered with rived ash shingles, and the interstices stopped with clay, or lime and sand, to keep out the weather. The next object was to open the land for cultivation. There is very little under-wood in any part of this country, so that by cutting up the cane, and girdling the trees, you are sure of a crop of corn. The fertility of the soil amply repays the labourer for his toil; for if the large trees are not very numerous, and a large proportion of them the sugar maple, it is very likely from this imperfect cultivation, that the ground will yield from fifty to sixty bushels of corn to the acre. The second crop will be more ample; and as the shade is removed by cutting the timber away, great part of our land will produce from seventy to one hundred bushels of corn from every acre. This extraordinary fertility enables the farmer who has but a small capital to increase his wealth in a most rapid manner (I mean by wealth the comforts of life). His cattle and hogs will find sufficient food in the woods, not only for them to subsist



BRYANT'S STATION
Plan drawn by George Rogers Clark.



upon, but to fatten them. His horses want no provender the greatest part of the year, except cane and wild clover ; but he may afford to feed them with corn the second year. His garden, with little attention, produces him all the culinary roots and vegetables necessary for his table ; and the prolific increase of his hogs and poultry, will furnish him the second year, without fearing to injure his stock, with a plenty of animal food ; and in three or four years his stock of cattle and sheep will prove sufficient to supply him with both beef and mutton ; and he may continue his plan at the same time of increasing his stock of those useful animals. By the fourth year, provided he is industrious, he may have his plantation in sufficient good order to build a better house, which he can do either of stone, brick, or a framed wooden building, the principal articles of which will cost him little more than the labour of himself and domestics ; and he may readily barter or sell some part of the superfluous productions of his farm, which it will by this time afford, and procure such things as he may stand in need of for the completion of his building. Apples, peaches, pears, &c., &c., he ought to plant when he finds a soil or eligible situation to place them in, as that will not hinder, or in any degree divert, him from the object of his aggrandizement. I have taken no notice of the game he might kill, as it is more a sacrifice of time to an industrious man than any real advantage." Once cleared and brought under cultivation, the limestone soil yielded amazing crops of corn, hemp, and tobacco. The buffalo herds, indispensable support of the backwoodsmen, disappeared from the cultivated districts. Cattle were pastured on the native grasses and increased both in weight and numbers. The horses brought from Virginia grew strong and fleet beyond seaboard standards.

Manufactures and trade developed with population and security. Shoes were substituted for moccasins, and linen and woolen cloth for buckskin, all being made up at home. Tanneries were set up for the tanning of hides. Saddlers, blacksmiths, wheelwrights, and carpenters earned good wages in the growing towns. Sugar was manufactured from the

Drake,
Pioneer Life
in Kentucky.

sap of the forest maples. Salt was evaporated from the saline springs or "licks" in sufficient quantities to supply the settlements by 1793. It sold at from three to five dollars a bushel, but this was less than the cost of transporting it by pack horse across the mountains. The primitive hand mills were superseded by gristmills run by water power. A retail store was opened at Louisville in 1783. Goods were imported from Philadelphia by way of the Ohio and sent by wagon road or pack trail to the thriving settlements of the interior. There was as yet little money in circulation. Exchange was effected by barter: salt, peltries, bear's grease, and corn, bearing a fixed money value. Even taxes were paid in produce. A compound unit, one half beef, pork, bear meat, or venison, one fourth corn, one eighth salt and one eighth money, was legal tender along the Cumberland.

McMaster,
Hist. of
People of
U.S.,
III, 485-486.



A PIONEER PILGRIMAGE



GRINDING CORN WITH SWEEP MILL



CHAPTER V

NATIONAL BEGINNINGS

Formative Legislation

The Federal Constitution. — The necessity of establishing a central government with powers adequate to the raising of a revenue, the maintenance of a uniform and stable currency, the negotiation of treaties with foreign nations, and the arbitration of interstate concerns had been rendered abundantly evident by the difficulties of the war just closed and by four years' experience of anarchy under the Confederation. The thirteen independent states were forced to set up a central authority endowed with all the powers that had been denied to the British Parliament. The Federal Congress, though fully representative of the interests of the people, was regarded with suspicion by the state governments, and power to legislate for industrial concerns, even of a general nature, was grudgingly conceded. Congress was accorded power "to lay and collect taxes, duties, imposts and excises" in order "to pay the debts and provide for the defense and general welfare of the United States," "to regulate commerce with foreign nations and among the several states," "to coin money and regulate the value thereof," to maintain copyrights and patents, to establish post offices and post roads. Under a liberal interpretation of these functions, the national government has done much to further the industrial interests of the country at large.

The states, for their part, surrendered the right to coin money, emit bills of credit, or make anything but gold and silver legal tender in payment of debt, and agreed to lay no tonnage duties or duties on imports without the consent of Congress. The levying of such indirect taxes has been rele-

gated in practice to the United States government. No state was permitted to enter into any agreement or compact with another state or with a foreign power, and exclusive authority to negotiate treaties was vested in the President and Congress.

An attempt to rid the young nation of the blight of African bondage by prohibiting the importation of slaves was made in the Constitutional Convention. The opponents of slavery urged that the slave trade should be stopped at once and for all time. But the devastations of war had considerably reduced the labor force of the Southern states, and the delegates from South Carolina and Georgia asserted that their constituents would never accept the new form of government if it meant the cutting off of farther supplies. The debate resulted in compromise. Congress was to impose no restraint on the slave trade before 1808, thus allowing the rice states an interval of twenty-one years in which to stock their plantations. The Northern states gave evidence of sincerity in the immediate prohibition of all traffic in slaves at their own ports. The off-setting concession to the commercial interests of the North was the omission from the constitution of the amendment, urged by Southern planters, requiring a two thirds' majority for the adoption of any restrictions on navigation. The merchants of the seaports, finding their trade injured by the British Navigation Act, were demanding compensating protection.

Legislation in Behalf of Shipping. — One of the first petitions received by the Federal Congress was drawn up by the merchants of Baltimore. It stated that "among the advantages looked for from the national government is the increase of the shipping and the maritime strength of the United States of America by laws similar in their nature and operation to the British Navigation Acts." The shipwrights of Charleston, South Carolina, petitioned to the same effect, begging that Congress would relieve the distresses that had fallen on shipwrights throughout the United States in consequence of the decline in that branch of business. A Massachusetts representative, Mr. Goodhue, proposed that

Elliot's
Debates,
V, 457-532.

Dubois,
The Slave
Trade,
Ch. VI, VII.

Bates,
Am. Marine,
Ch. VII.

Am. State
Papers,
Finance,
I, 9-11, 108.

duties to the amount of sixty cents per ton be levied on all foreign vessels coming into our harbors, as an offset to the charges to which American vessels were subject in British and Continental ports. This tonnage duty was protested by Tucker of South Carolina. "Some States, it is well known, have more tonnage than is sufficient to carry all their small productions to a market; of course, a duty on foreign ships will not affect them. Other States, which have considerable quantities of more bulky articles to export, and require a greater number of ships, having few or none of their own, must consequently be subjected to the whole of the additional duty; for, whether the vessels be foreign or American, the freight will be the same. Much of the produce of South Carolina is carried off by foreigners, and in American shipping a considerable quantity is exported. The duty will be paid equally, in either case, by the shipper, for the freight of American vessels will be raised to an equality with the other; and of all this money so paid, there comes into the Treasury that part only collected from foreigners; the rest, as I said before, goes as bounty to benefit the owners of American ships."

Annals of Congress,
1789-1791,
I, 176-191,
233-289.

Of the 437,641 tons of shipping employed in the commerce of the United States, about one third was owned by foreigners. The proportion varied from ten per cent foreign tonnage in the ports of Massachusetts to sixty-seven per cent in those of Georgia. It was evident that the commercial states would gain far more by discriminating duties than an agricultural state such as Virginia, where few seagoing vessels were built or owned, and where fifty-two per cent of the exports was carried by foreigners. The result of the debate was the Navigation Act of 1789, by which preference was given in the ports of the United States to vessels either built or owned by American citizens. Such ships were to pay tonnage duties at the rate of six cents per ton of hold capacity; vessels built in the United States but partly or wholly owned by foreigners must pay thirty cents per ton; vessels built and owned abroad, fifty cents. All vessels engaged in the coastwise trade and carrying American products,

Annals of Congress,
1789-1791,
I, 258, 259.

unless they were both built and owned in the United States, were to pay fifty cents tonnage duty at every entry. The more stringent regulation of 1817 declared the forfeiture of all goods taken on board a foreign vessel to be transported from one to another United States port. The effect of this legislation was to give American shipmasters the monopoly of the coastwise trade, a monopoly that has persisted to the present time. In foreign commerce, vessels owned and built in the United States were given so considerable an advantage that they were able to offer lower freight rates than their competitors, and so to secure the lion's share of the trade. By the Tariff Act of 1789 our ships were given a farther advantage, in that ten per cent was deducted from the customs duties collected on goods imported in American bottoms.

The effect of discriminating duties, and of the law of 1792 excluding foreign-built vessels from American registry, was soon evident in the rapid increase in the number of vessels flying the American flag. The shipyards were busy building vessels for the coastwise and ocean trade. Foreigners engaged in transatlantic commerce naturalized in the United States that they might participate in the privileges secured to American shipmasters. The total tonnage registered for the foreign trade rose from 123,893 in 1789 to 981,019 in 1810, and the proportion of foreign trade carried on in United States vessels increased from 23.6 per cent to 91.5 per cent during the same interval.

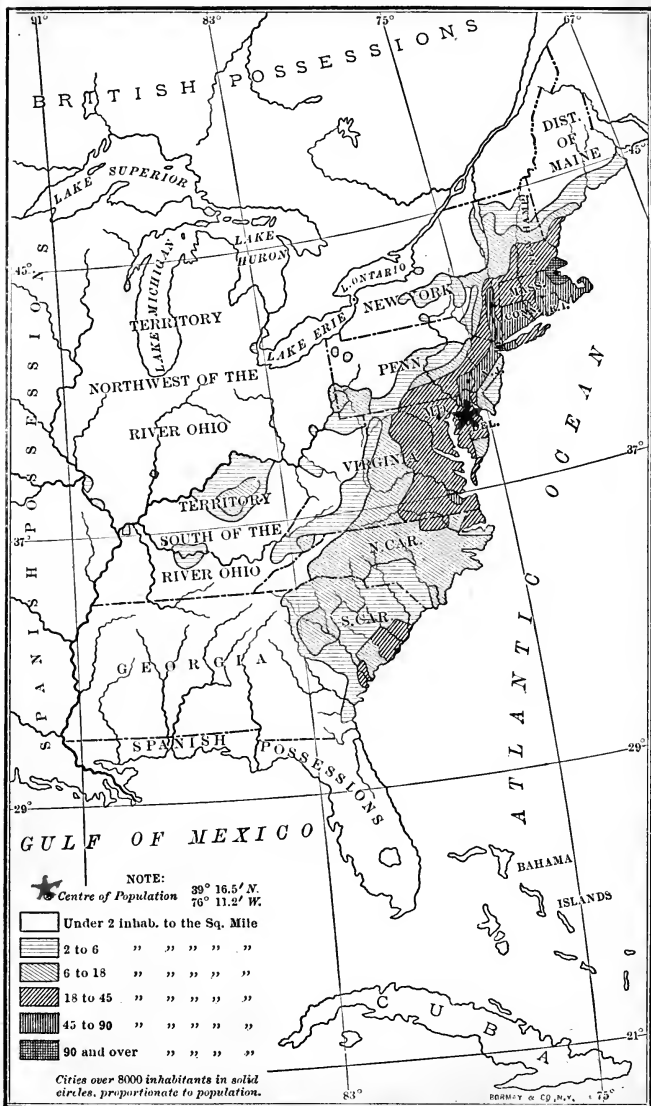
The most notable development of these years was in trade with the Orient. Commerce with India and China, hitherto monopolized by the East India Company, was fostered by special discrimination. The tariff of 1789 levied an extra duty of 12.5 per cent on goods imported from India and China in foreign vessels. Tea paid a duty of from six to twelve cents per pound when imported in American vessels direct from China ; when brought in an American vessel from a British or European port, the duty paid varied from eight to twenty-six cents. If the whole journey was made in foreign bottoms, the charge was from

Marvin,
Ch. XV.

Abbot,
Ch. I.

Marvin,
Ch. IV, VI.

Annals of
Congress,
1789-1791,
I, 168-170.



DISTRIBUTION OF POPULATION, 1790

Marvin,
Ch. X.

Hawthorne,
Introduction
to Scarlet
Letter.

Kimball,
East India
Trade of
Providence.

Abbot,
Ch. X.

Pitkin,
Hist. of U.S.,
II, 185-192,
534-536.

fifteen to forty-five cents. The East India Company's monopoly was effectually broken so far as commerce with America was concerned. The "China trade" centered in Boston, Salem, and Providence. At these ports Yankee clippers loaded with lumber, naval stores, salt fish, rum, and ginseng, and made their way round the Cape of Good Hope, exchanging the cargo *en route* for Madeira wine, the precious metals, and other goods suited to the Oriental trade. Arrived at its ultimate destination, the ship's cargo was bartered for tea, spices, coffee, silks, nankeen, India muslins, saltpeter, etc., articles of great value in proportion to bulk. On returning home these goods might be sold at a profit or reshipped for some European port. Trade with the Orient went far toward compensating the merchants of New England for the exclusion of American vessels from the ports of the British West Indies.

Congressional legislation in behalf of commerce was not limited to discrimination against foreign shipping. In 1790 was passed the Act for the Government and Regulation of American Seamen. Under this law a written contract, specifying the voyage for which service was undertaken and the rate of wages to be paid, must be signed by master and man and recorded by a United States official. Seamen deserting the ship forfeited their wages and might be reclaimed and forced to serve to the end of the voyage. The captain, on the other hand, was required to furnish suitable living accommodations, and was liable to penalty if he abandoned an American sailor in a foreign port. An act of 1802 provided for the erection of lighthouses along the coast, especially on Long Island Sound. Light money was provided by a special tax of fifty cents per ton on foreign vessels. In 1807 an appropriation of \$50,000 was made for the coast survey.

Commercial Treaties. — The governments of Europe were eager to secure to their subjects some share in the American trade hitherto monopolized by Great Britain. Early in the course of the War for Independence overtures were made by our commissioners at the courts of Holland, France, and Spain looking toward commercial negotiations. On the same day on

which the treaty of alliance was concluded between Louis XVI and the seceding colonies, a treaty of amity and commerce was signed establishing mutually advantageous trade relations between France and the United States of America. Fishing rights on the Grand Banks were to be shared on equal terms by French and American fishermen. Trade with the French West Indies was thrown open to our vessels, and France was assured the most favorable terms in American ports. The two nations entered into important guarantees concerning the exemption of neutral trade from the devastations of war. The citizens of each were permitted to trade freely with the enemies of the other. The principle that free ships make free goods and free passengers was clearly enunciated. Only munitions of war and persons engaged in the military service of the enemy were subject to capture. Privateering was abandoned so far as affected the signatory powers, "the citizens of each party" being "prohibited from making commissions from a third party to cruise against each other." The introduction of these advanced principles of international law into the first treaty negotiated by the United States had deep significance. In the next ten years most of the nations of Europe followed the lead of Russia and France in the effort to secure neutral trade against the devastations of war. Benjamin Franklin negotiated the treaty with Prussia (1785) in which the exemption of private property from confiscation and the immunity of neutral ships was guaranteed, and privateering was abandoned as between the contracting parties. Contemporary treaties with Sweden, Denmark, and Portugal were framed to the same intent. In his treatises on war and on privateering, our Quaker diplomatist clearly stated his own conviction that war, though a necessary evil, should do as little harm as might be to noncombatants.

"Why should it not be agreed to, as the future law of nations, that in any war hereafter the following description of men should be undisturbed, have the protection of both sides, and be permitted to follow their employments in security? viz. : —

Snow,
Treaties and
Topics in
Am. Diplo-
macy, 12-31.

Franklin's
Works,
On War,
X, 60-62.
On Private-
teering,
VIII, 246-
249.

“1. Cultivators of the earth, because they labor for the subsistence of mankind.

“2. Fishermen for the same reason.

“3. Merchants and traders in unarmed ships, who accommodate different nations by communicating and exchanging the necessities and conveniences of life.

“4. Artists and mechanics, inhabiting and working in open towns.

“It is hardly necessary to add, that the hospitals of enemies should be unmolested — they ought to be assisted. It is for the interest of humanity in general, that the occasions of war, and the inducements to it, should be diminished. If rapine be abolished, one of the encouragements to war is taken away; and peace therefore more likely to continue and be lasting.

“The practice of robbing merchants on the high seas — a remnant of the ancient piracy — though it may be accidentally beneficial to particular persons, is far from being profitable to all engaged in it, or to the nation that authorizes it. In the beginning of a war some rich ships are surprised and taken. This encourages the first adventurers to fit out more armed vessels; and many others do the same. But the enemy at the same time become more careful; arm their merchant ships better, and render them not so easy to be taken: they go also more under the protection of convoys. Thus, while the privateers to take them are multiplied, the vessels subject to be taken, and the chances of profit, are diminished; so that many cruises are made wherein the expenses overgo the gains; and, as is the case in other lotteries, though particulars have got prizes, the mass of adventurers are losers, the whole expense of fitting out all the privateers during a war, being much greater than the whole amount of goods taken.”

In 1795 a treaty of commerce was concluded with Spain. The merchant ships of either nation were declared inviolate in the event of war, and their cargoes not subject to seizure. No citizen of Spain or of the United States was to take out letters of marque from a hostile power with the intent to

prey upon American or Spanish commerce. Such privateers were to be treated as pirates in the admiralty courts. The only serious occasion for war between the two nations was successfully adjudicated. Spain conceded the western boundary of the United States to be the middle channel of the Mississippi, and free navigation of that river to the Gulf was given American citizens together with rights of deposit at New Orleans.

Pitkin,
Hist. of U.S.,
II, 512-519.

On the eve of the Napoleonic Wars — a contest that was to endure for twenty years and to involve eventually not only England and France but all the states of Europe — the United States proclaimed her own neutrality and sought to secure from the combatants stipulations as to the rights of neutral trade. In the commercial treaty with Great Britain negotiated by John Jay in 1794 no satisfactory stipulations as to neutral trade were obtained. Not arms and ammunition only, but naval stores and food stuffs destined for the enemy's use were declared contraband of war and subject to seizure with or without indemnification. The privilege of privateering was upheld, in spite of the urgent representations of the American commissioner. Some abatement of the Navigation Acts was secured. American vessels were accorded access to the ports of the British dominions in Europe and Asia, but this concession was offset by the limitations proposed on the West India trade. American vessels not above seventy tons' burthen were to be allowed to trade with Jamaica and the Barbadoes, provided they carried only goods produced in the states or in these islands; but this grudging concession was made on condition that our government would surrender the right to transport molasses, sugar, coffee, cocoa, or cotton from America or the British West Indies to any part of the world. The price of entry to the coveted ports was to be the loss of the carrying trade in the products of these islands, except to American markets. This article of the treaty was rejected by the Senate, and commerce with the British West Indies was abandoned perforce.

Pitkin,
Hist. of U.S.,
II, Ch.
XXII, XXIV,
XXV.

Pitkin,
Statistical
View,
199-219.

The terms of the treaty with England gave great offense to France. The Directorate declared the treaty of 1778 at

an end and issued a decree announcing that hereafter French men-of-war and privateers would "treat neutral vessels either as to confiscation, as to searches or capture in the same manner as they shall suffer the English to treat them." The American government found itself involved in a troublesome controversy with the representatives of the new Republic, who naturally held that France was entitled to some return service for the aid rendered the United States in the closing years of the Revolutionary War. President Washington and his advisers had much ado to keep French sympathizers in the United States from making war on England, the common antagonist.

Legislation in Behalf of Manufactures.—The various industries set on foot during the war when there was little or no importation and domestic goods had a practical monopoly of the home market, were threatened with ruin now that the Peace had opened our ports to the commerce of the world. English manufacturers had an accumulated stock of woolens, cotton cloth, and ironware that must be disposed of even at a loss. They were ready to sell their goods at twenty-five per cent below London prices in order to recover their American custom. European merchants were eager to gain admission to the promising market hitherto monopolized by Great Britain. Ships bearing sail duck and linen from Holland and Russia, muslins, nankeens, and silks from India and China, thronged our ports. They found eager purchasers. Wealthy Americans had had enough of homespun and seized their first chance to buy finer stuffs. In the year following the Peace, \$18,397,335 worth of goods was brought into the country, and but \$3,746,725 was exported in exchange. By 1790 we had accumulated an unfavorable balance of trade to the amount of \$53,992,655. The discrepancy had to be made good in gold and silver, commodities that could not well be spared. American manufacturers protested that, handicapped as they were by high-priced labor and lack of machinery, they could not compete in an open market with the products of English factories and Oriental looms, and

Taussig,
Tariff Hist.
U.S.,
Ch. II-V.

Rabbeno,
III-133.
Sheffield, 4.

Pitkin,
Statistical
View of the
U.S.,
30.

they begged for protection. A petition addressed to Congress by the tradesmen and manufacturers of the town of Baltimore represented the sentiment of the manufacturing sections of the country. "Since the close of the late war, and the completion of the Revolution, they have observed with serious regret the manufacturing and the trading interest of the country rapidly declining, and the attempts of the State Legislatures to remedy the evil failing of their object; that, in the present melancholy state of our country, the number of poor increasing for want of employment, foreign debts accumulating, houses and lands depreciating in value, and trade and manufactures languishing and expiring, they look up to the Supreme Legislature of the United States as the guardian of the whole empire, and from their united wisdom and patriotism, and ardent love of their country, expect to derive that aid and assistance which alone can dissipate their just apprehensions, and animate them with hopes of success in future, by imposing on all foreign articles, which can be made in America, such duties as will give a just and decided preference to their labors; discountenancing that trade which tends so materially to injure them and impoverish their country; measures which, in their consequences, may also contribute to the discharge of the national debt and the due support of the Government."

Annals of
Congress,
1789-1791,
I, 115-116.

The levying of customs duties, not merely for revenue but for the protection of home manufactures, was fully debated in the first session of the Federal Congress. James Madison of Virginia brought in a bill proposing a tariff for revenue only. Duties were to be laid on commodities not produced in the country, such as molasses, rum, sugars, wines, teas, pepper, coffee, etc., since these imports would not be materially diminished by the levying of an impost, and a steady income might be anticipated, augmenting with the growth of population and wealth. Rum was the only exception on the list, being distilled in large quantities in New England. The rum imported from Jamaica was superior in quality and sold for double the price of the domestic product. An import duty would farther raise this price and give

Annals of
Congress,
1789-1791,
I, 102, 168,
192-233, 291-
317, 324-334.

the home product a practical monopoly of the American market.

In the very able tariff debate of 1789, the interests of the several sections of the country were clearly brought out. The delegates from the manufacturing states — Pennsylvania, New York, Massachusetts, and Connecticut — suggested that the opportunity be utilized to “protect our infant manufactures” against the competition of low-priced foreign goods. They urged that duties should be so laid as to advance the price of the competing import to the point at which the domestic product could sell with profit. The agricultural states were, in general, opposed to import duties, since they were accustomed to rely upon foreign manufactures, and the enhanced price would amount to a tax on consumption. Each delegate advocated protection for the products of his own state, but deprecated the duties on commodities purchased by his constituency. For example, Fitzsimons of Pennsylvania proposed protection for the steel industry recently established in that state, but Tucker of South Carolina protested that “the smallest tax on steel would be a burden on agriculture.” A compromise of interests was effected at fifty-six cents a hundredweight. Fitzsimons advocated a duty on beer, representing that the brewing industry, both in Philadelphia and New York, was one “highly deserving of encouragement.” Malt liquors were, he argued, less intoxicating than rum, and as an element of diet were far preferable. This consideration, together with the indirect advantage that would accrue to the growers of hops and barley, induced Congress to impose a duty of five cents a gallon on ale and beer. Pennsylvania’s delegates further desired protection for her paper manufactures. The capacity of the mills established to meet the demands of the revolutionary press was sufficient to supply the markets of this and the neighboring states with the coarser grades of paper. The industry would be ruined if the protection accorded by the state tariff was now withdrawn. A duty of 7.5 per cent ad valorem was voted without debate. The chandlers of Philadelphia and Roxbury, Massachusetts, had brought

Bishop,
I, 250-262.

Bishop,
I, 199-208.

the manufacture of wax, spermaceti, and tallow candles to such a degree of perfection that they expected in a few years to provide for the needs of the western hemisphere, but they must be protected against wholesale importations from Ireland and Russia. It was urged that candles might eventually be made in America "cheaper than could be imported if a small encouragement was held out to them, since the raw materials were to be had in abundance." This tax on light was protested by Tucker in the interest of consumers. Nevertheless, a duty of two cents a pound was imposed on tallow and six cents on wax and spermaceti candles. Carroll of Maryland asked for and secured a duty of 10 per cent on glass manufactures in the behalf of works recently established near Fredericktown.

Bishop,
I, Ch. X.

The manufacturing interests of New England were by no means neglected. Connecticut delegates asked that the iron works of Litchfield County should be secured in their hold on the home market, and a duty of 7.5 per cent was accordingly laid on ships' anchors. Fisher Ames of Massachusetts asked for a protective duty on nails. This, he argued, was a domestic industry, requiring small capital and no machinery and employing labor that would otherwise be wasted. "In winter, and on evenings when little other work is done, great quantities of nails are made even by the children; perhaps enough might be manufactured in this way to supply the continent," since "the business could be prosecuted in a similar manner in every state exerting equal industry." Madison and Tucker protested in the interest of the men who were building houses and ships, but a duty of a cent a pound was granted. The manufacturers of beaver hats in Boston, New York, and Philadelphia had greatly profited by the removal of the British restrictions on exportation and the monopoly of the home market consequent on the war. They were now accorded a protective duty of 7.5 per cent, lest the business be injured by the cheaper felt hats imported from England. The manufacture of wool cards had come to be an industry of importance in the neighborhood of Boston, because of a labor-saving machine that reduced by

Annals of
Congress,
1789-1791,
I, 157.

Bishop,
I, 497-498.

half the number of workingmen required to bend the wire. A duty of fifty cents per dozen, amounting to 7.5 per cent ad valorem, was granted. Protective duties were also laid on boots and shoes and galoshes. The leather manufactures were in a flourishing state because raw material in the shape of hides, bark for tanning, and oil for dressing was abundant and cheap, and no machinery was required. The business was carried on in the house of the master craftsman with the assistance of half a dozen apprentices and journeymen. The war demand, coupled with the exclusion of foreign goods, had given a marked impulse to this industry. Lynn boasted two hundred master craftsmen and six hundred other workmen, and was exporting from one to three hundred thousand shoes per year. The leather industry centered then, as now, in the maritime counties of Massachusetts, but it had developed to considerable proportions in Connecticut, Pennsylvania, Delaware, New Jersey, and Maryland. Farther south hides were tanned for exportation, and nothing but the coarsest shoes for field laborers were made up on the plantations. The tax on fine wear was therefore felt to be a burden.

The interests of the Yankee farmers were considered in the laying of import duties on cheese and cider, though the proposition to levy customs charges on salt beef, pork, and butter was rejected on the ground that since we produced already more of these articles than we could consume and none was imported, such duties would be useless. Duties on nails, boots and shoes, ready-made clothing, etc., gave welcome protection to the by-industries of the farmhouse. Yankee fishermen were protected against the competition of their Canadian rivals by a duty of fifty cents a quintal on dried, and seventy-five cents a barrel on pickled, fish. South Carolina delegates were quite ready to accept protection in the shape of a duty of sixteen cents a pound on indigo, and were reconciled to the duty on candles because beeswax was a product of that state. A duty on hemp was urged by Madison himself in the interest of the farmers of the Ohio Valley, where thousands of acres of native hemp were seeking a market. This tax of sixty cents a hundredweight on their raw

material was protested by the cordage manufacturers. The home-grown hemp could not supply the ropewalks of New England, and half the amount needed was being imported from the Baltic. The prosperity of the important cordage industry would be jeopardized unless a compensating duty was levied on imported goods. The New England representatives secured a duty of seventy-five cents a hundredweight on tarred, and ninety cents on untarred, rope, and two dollars a hundredweight on pack thread. Both duties were protested by the shipping interest of Massachusetts on the ground that a rise in the price of cordage would enhance the cost of ships, and by the merchants of South Carolina because more costly ships would mean higher freight rates.

The conflict of interest between producer and consumer, between the producer of the raw material and the producer of the finished article, gave rise to protracted controversies among the representatives of rival industries. A duty of two cents a bushel was laid on coal in behalf of the mines recently opened near Richmond, Virginia. They were capable, it was believed, of supplying the whole of the United States if their owners might be protected against the competing product brought over from England as ballast. This duty was protested as a tax on fuel by the manufacturers of Pennsylvania. The rich deposits of their own state had not yet been discovered. A duty of ten cents a bushel was laid on salt, primarily for revenue, though it gave incidental protection to the nascent salt works of New Bedford and Syracuse. We had imported from Europe and the West Indies in 1769, more than a million bushels, at a cost of one shilling a bushel. The duty nearly doubled the price. The tax was energetically opposed by the spokesmen of the New England fisheries. The cattlemen of the "back country" of the Carolinas and the pioneer farmers beyond the mountains were also large consumers of salt and could ill afford any addition to the already heavy cost of this necessity. The duty of fifteen cents a gallon on Jamaica rum was hotly contested by a Georgia delegate, not only from the standpoint of the consumer of this beverage, but because rum was an

*Annals of
Congress,
1789-1791,
I, 125-142,
192-231,
324-335.*

essential factor in the lumber trade with the West Indies. This growing commerce would be jeopardized if the principal return cargo was subjected to so heavy a duty. When the rate was lowered to ten cents, the New England representatives urged that the tax of eight cents a gallon on molasses be reduced in proportion. They argued that molasses was not only the raw material of the distilleries, but an article of general consumption, especially among the poor, and that it was an indispensable factor in New England's West India trade. The strenuous endeavors of Fisher Ames and his colleagues finally secured a reduction of the duty on molasses to two and one half cents a gallon, with a drawback in case the rum was exported for sale. Other raw materials, such as barley, dyestuffs (except indigo), undressed hides, furs, and all the metals, were admitted free of duty. The loss to the government in the way of potential revenue was considerable, but it was evidently unwise to levy taxes on imports so greatly needed by manufacturers. Duties on exports were forbidden by the Constitution. Increasing returns were realized, however, from the purely revenue duties levied on coffee, tea, sugar, wines, and other luxuries and from the five per cent ad valorem duty imposed on all nonenumerated imports. The customs receipts (\$4,000,000 in 1791) were soon adequate to the ordinary expenses of the government.

Hamilton's Report on Manufacturers. — In 1791 Alexander Hamilton, Secretary of the Treasury, submitted to the House of Representatives a report on the status of manufactures, in which the contemporary argument for protection was clearly set forth. According to this great financier, industrial conditions fully justified the levying of customs duties, not merely for revenue, but for the sake of defending our infant manufactures against the competition of countries better equipped for the production of these goods. American manufacturers were handicapped by scarcity of labor and capital. They must pay higher wages and higher interest rates than their English rivals, and they had not as yet secured textile machinery. These disadvantages would soon

Annals of
Congress,
1791-1793,
971-1034.

Rabbeno,
289-324.

be overcome if adequate encouragement were held out to adventurers in this line of business. For high-cost labor would be substituted labor-saving machinery. Operatives of a cheaper grade could then be utilized, *e.g.* "Women and children are rendered more useful, and the latter more early useful, by manufacturing establishments, than they would otherwise be. Of the number of persons employed in the cotton manufactories of Great Britain, it is computed that four sevenths, nearly, are women and children; of whom the greatest proportion are children and many of them at a tender age." The report called attention to the fact that emigration from the Old World was bringing crowds of artisans to our ports, seeking employment in a country where wages were high and the cost of living low; thus the deficiency in supply would soon be made good. Capital, too, would be attracted from abroad by the promising opportunities for investment here offered.

Annals of
Congress,
1791-1793,
II, 982.

Hamilton recommended the protection of textile manufactures, metal and glass works, sugar refineries, together with all the finished products from leather, wood, and grains, but not in the interest of the manufacturers alone. Our merchants might be compensated for their losses in transatlantic commerce by the development of domestic trade. The raw materials of the Southern would be exchanged for the manufactures of the Northern states, to the mutual advantage of both sections. Our farmers and planters and lumbermen who were finding the foreign market for their products increasingly precarious would soon realize the advantage of a home market in the manufacturing towns with their growing demand for food stuffs and raw materials. Consumers would be obliged to pay higher prices for the protected commodities during the initial years of this policy, but the burden would be fully offset by ultimate gains. Prices would eventually fall under the operation of domestic competition, to a point lower than that at which the foreign commodity, subject to heavy freight rates, could be furnished to the American market. "When a domestic manufacture has attained to perfection, and has engaged in

Annals of
Congress,
1791-1793,
1001-1002.

the prosecution of it a competent number of persons, it invariably becomes cheaper. Being free from the heavy charges which attend the importation of foreign commodities, it can be afforded, and accordingly seldom or never fails to be sold cheaper, in process of time, than was the foreign article for which it is a substitute. The internal competition which takes place soon does away with everything like monopoly, and by degrees reduces the price of the article to the minimum of a reasonable profit on the capital employed. This accords with the reason of the thing and with experience." According to Hamilton the United States could not afford to remain an agricultural community dependent on foreigners for the purchase of supplies and the disposal of surplus products. National self-sufficiency was essential to national independence. All classes and sections must benefit in the end by the promotion of an all-round industrial development.

Rabbeno,
134-145.

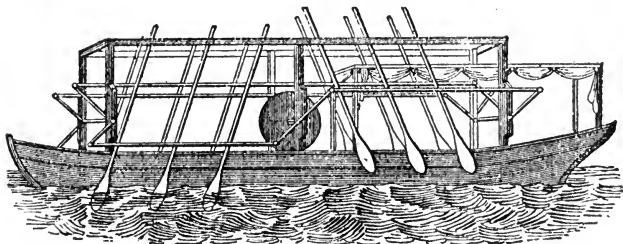
The tariff legislation of the years immediately following was quite in the spirit of Hamilton's recommendations. There was a steady increase of duties on manufactured articles, the usual rate of 1789 being 7.5 per cent, that of 1792 being 10 per cent, that of 1795, 15 per cent. Raw materials, with the exception of indigo, hemp, and molasses, were left free from taxation. The list of revenue duties was increased, articles of luxury, such as lemons, oranges, olives, spices, raisins, and wines, being selected to supply the government income.

Dewey,
80-84.

The Patent Law. — Among the early enactments intended to promote the industrial development of the country, none was wiser or more timely than the patent law. The Act of 1790 secured to the inventor of "any useful art, manufacture, engine, machine or device, or any improvement therein not before known or used," exclusive monopoly of the sale of such patent for a term not exceeding fourteen years. Under this guarantee of the benefits accruing from a successful process, inventive genius received a notable stimulus. One of the first to apply for a patent monopoly was John Fitch, the designer of a steam engine adapted to

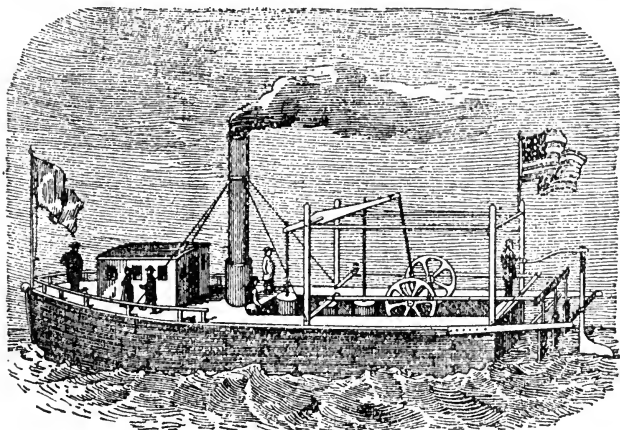
the propelling of a boat. The petitioner "trusts no interference with him in propelling boats by steam, under any pretence of a different mode of application, will be per-

White,
Memoir of
Samuel
Slater,
453.



FITCH'S SECOND BOAT

mitted; for should that be the case, the employment of his time, and the amazing expense attending the perfecting of his scheme, would, whilst they gave the world a valuable



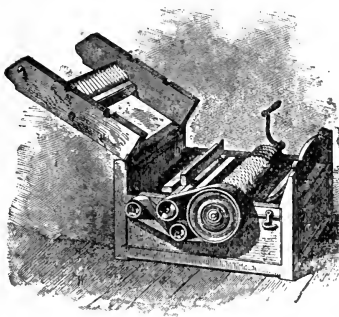
FITCH'S THIRD BOAT

discovery, and to America peculiar and important advantages, eventuate in the total ruin of your petitioner; for a thousand different modes may be applied by subsequent navigators, all of them benefiting by the expense and per-

severing labor of your petitioner, and thus sharing with him those profits, which they never earned." He prays, therefore, that he may be granted an "exclusive right to the use of steam navigation for a limited time." Fitch anticipated that his invention would greatly benefit the trans-Alleghany territory. "The western waters of the United States, which have hitherto been navigated with difficulty and expense, may now be ascended with safety, conveniency and great velocity; consequently, by these means, an immediate increased value will be given to the western territory; all the internal waters of the United States will be rendered much more convenient and safe, and the carriage on them much more expeditious; that from these advantages will result a great saving in the labour of men and horses, as well as expense to the traveller." The patent was allowed, and Fitch's steamboat, propelled by paddles, made her first voyage on the Delaware in 1790. Regular trips were made from Philadelphia

to Trenton, Wilmington, Gray's Ferry and return for four months of that year, but the experiment was soon abandoned.

A more immediately successful invention was Eli Whitney's saw gin for removing seeds from the cotton boll, patented in 1794. The East Indian method of extracting the seeds by hand or by roller



WHITNEY'S COTTON GIN

mill had been in use. By the new process the cotton was dragged through a wire screen by means of toothed cylinders revolving in opposite directions, and the seeds thus separated from the lint. A slave could clean by hand only five or six pounds of cotton in a day, the mill turned out but sixty-five pounds. The new machine, when run by horse power, ginned three hundred pounds

U.S. Census,
1880,
IV. Rept. on
Steam Navi-
gation in U.S.
I-4.

Hammond,
Cotton
Culture and
Cotton
Trade,
Ch. I.



CLEANING COTTON WITH ROLLER GIN



of cotton per day. Hitherto, the native short-fiber cotton had sufficed for the plantation industries of the Southern states, but the Northern cotton manufacturers had imported the long staple variety from India, Brazil, and the West Indies. In 1786 some experiments were made in the growing of West India cotton in the sea islands off the coast of South Carolina and Georgia. Three bales of this cotton were sent to London and sold for 4*s.* 6*d.* per pound. Under the stimulus of a protective duty of three cents a pound, laid in 1790, more cotton seed was planted and the crop of 1791 amounted to nine thousand bales. The cotton gin made it easier to clean the short-fiber cotton which could be grown in the hill country. Thousands of acres were soon brought under cotton culture, and the South had a new staple crop of transcendent importance. In 1792 the Southern states sent 630 bales of lint cotton to England. The year following the introduction of the cotton gin, 7000 bales were exported; by 1800 the amount was 79,000 bales.

Writings of
Washington,
XI, 358.

Other inventors proposing labor-saving machinery for agricultural processes secured protection under the patent law. A machine for the threshing of grain was patented in 1799, and another for cutting grain in 1803. A plow with a mold board of iron cast all in one piece was patented in 1797. But the farmers were slow to adopt new-fangled notions, and, spite of the high cost of labor, continued to use the wooden plow clumsily plated with wrought iron. They sowed their grain by hand, cut it with sickle or cradle scythe, and threshed it out with flail and winnowing sieve.

The cloth workers showed more enterprise. Strenuous efforts were being made to procure the textile machinery which the British government was jealously guarding lest England lose her recently acquired supremacy in cotton manufactures. The Beverley Company, in a petition for aid from the General Court of Massachusetts (1790), set forth the difficulties of the situation: "The extraordinary price of machines unknown to our mechanics, intricate and difficult in their construction, without any model in the

14 Geo. III,
C. 71.

21 Geo. III,
C. 37.

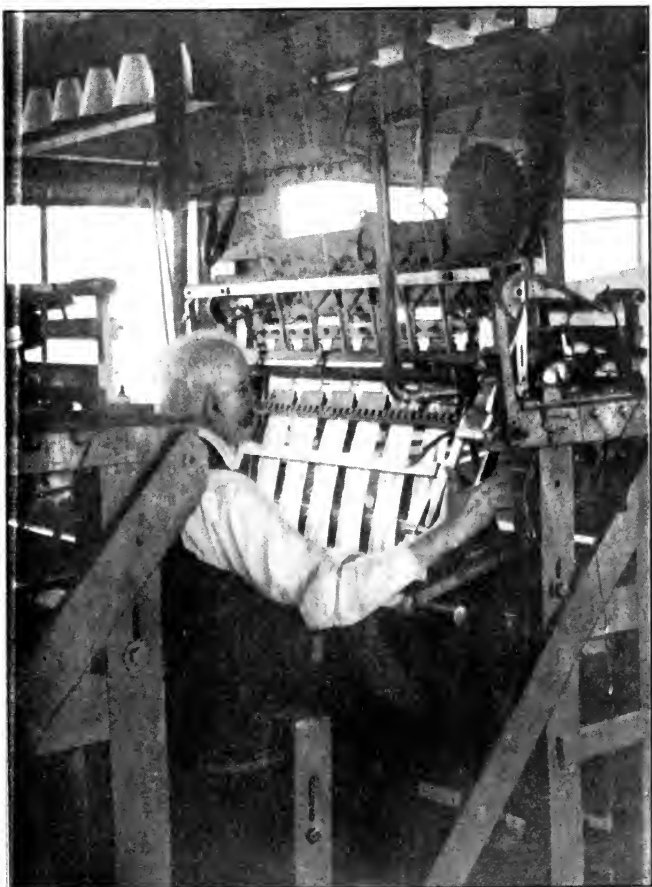
White,
Memoir of
Slater,
Ch. I, II,
III, VI, X.

country, and only to be effected by repeated trials, and long attention; one instance among many of the kind is a carding machine, which cost the proprietors eleven hundred dollars, and which can now be purchased for two hundred dollars. The extraordinary loss of materials in the instruction of their servants and workmen, while so many are new, and the additional losses sustained by the desertion of these, when partly informed, and by the increase of wages to prevent it, in consequence of the competition of rival manufactories. The present want of that perfection and beauty in their goods, which long-established manufactories can exhibit, from the skill of their workmen, but principally from the use of machines which your petitioners have as yet found too expensive for them to procure." A few spinning jennies and stocking looms had been brought over, spite of the vigilance of the British customs officials. A spinning frame to be operated by a crank turned by hand and carrying thirty-two spindles, was set up in Providence in 1788. The machine was, however, too heavy to run by hand, and the attempt to adapt it to water power was unsuccessful. Tench Coxe, a Philadelphia manufacturer, had contracted with an English firm for a full set of Arkwright machinery, but the contraband models were seized and confiscated by the customs officers. A few skilled artisans from Scotland and Ireland had succeeded in evading detection and emigrating to the United States. In 1790 one Samuel Slater, who had been employed in the Arkwright factory, attracted by an advertisement of the Philadelphia Society of Artists and Manufacturers for a machine to make cotton rollers, determined to venture his fortunes in America. On arriving he entered into a contract with Moses Brown of Providence to build and operate a complete spinning mill, with carding, roving, and spinning machines, at the falls of the Pawtucket River. Slater had not dared to bring with him any models of the English machines. He was obliged to draw the plans, direct the mechanics who fashioned the parts, supervise the construction of the factory and the regulation of the water power, and, finally,

Wright,
Indust. Evol.
of U.S.,
Ch. X.

Bagnall,
I, Ch. VI.

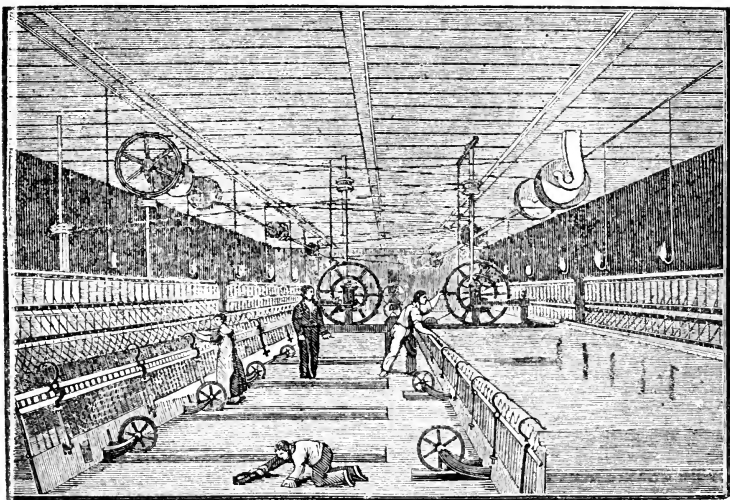
White,
Memoir of
Slater,
Ch. I-IV.



STOCKING LOOM WEAVER



instruct the workmen how to operate the machinery. The Pawtucket mill was a success from the start, and thus Samuel Slater inaugurated a new industry and one destined to absorb much of the capital and entrepreneur ability of New England. The water frame was patented in 1791. Other improvements and inventions followed in quick succession. American manufacturers were so enterprising, and American laborers proved so intelligent, that the origi-



SPINNING ROOM IN SLATER'S MILL

nal disadvantages were rapidly overcome, and the manufacture of cotton cloth of the coarser grades was soon established on a firm basis.

Regulation of the Currency. — There could be no real industrial prosperity without an adequate supply of money, and the attention of Congress was early called to the necessity of providing a medium of exchange that should have stable and uniform value. The bills of credit, thoroughly discredited by the close of the war, had dropped out of circulation. The supply of metal money was insufficient

Bolles,
II, Bk. I,
Ch. VIII.
Dewey,
98-105.

to effect business exchanges even at the trade centers. The specie brought in during the war was of varying standards and denominations. English shillings and sovereigns, French crowns, Spanish reals and pieces of eight, passed current, to the endless confusion of traffic. The reviving trade with Havana brought in considerable silver, and the Spanish dollar was the coin most frequently handled. This came, by consequence, to be the unit of value in most general use, and by 1790 had superseded the English denominations.

When Hamilton, the financier of Washington's cabinet, was called upon to submit to Congress plans for a new coinage system, he suggested the dollar as the most convenient money unit, since it was familiar and popular. He recommended that both gold and silver be declared legal tender in exchange, since, though gold was the more stable metal, the supply was insufficient to provide the needed volume. The Coinage Act of 1792 established a bimetallic currency, both metals being coined freely at the mint in the ratio of fifteen to one. The silver dollar was to contain 371.25 grains of pure silver, while 24.75 grains of pure gold went to the making of a gold dollar. The latter denomination was actually coined only in multiples, *i.e.* eagles, half eagles, and quarter eagles. For fractional currency, the decimal system, suggested by Jefferson, was adopted, the smaller denominations being coined in copper.

The available supply of metals, gold, silver, and copper, was so far short of the money need of the country that a paper substitute was a physical necessity. The power to "emit bills of credit and make them legal tender in payment of debt" was not conceded to the Federal Government by the Constitution. A clause conferring such authority failed to pass in the Constitutional Convention by a vote of nine states to two. Bank notes issued with sufficient guarantee of redemption might, however, be made to serve the purpose. Hamilton proposed that the Federal Government meet the actual currency needs of the country by establishing a national bank author-

Annals of
Congress,
1780-1791,
II, 2112-
2141.

Hamilton's
Works,
I, 275-325.

ized to issue a credit money on safe business principles. The solvency of the bank was to be guaranteed by the investment of four fifths of its \$10,000,000 capital in government bonds paying six per cent interest. Redemption of the notes was to be secured by the maintenance of a specie reserve equal to one third the issue. The great model for such a credit money was the Bank of England, but the method had been successfully tried by the Bank of North America in Philadelphia, the Bank of New York in that city, and the Massachusetts Bank of Boston. The business advantages of a national as compared with a state bank were emphasized in Hamilton's report. The sale of stock would afford a safe investment for idle capital, the property of women, minors, etc., the country over. Out of the accumulation of small capitals, the bank could make loans to business men, thus enabling them to set upon enterprises otherwise impossible. The notes might not, as the Constitution was then interpreted, be given legal tender value, but being redeemable in specie on demand and receivable for taxes at par, they would serve all the purposes of money. The national bank issue would be a welcome addition to the volume of the currency and would, Hamilton believed, ultimately supersede private bank issues, since the redemption of the national bank notes was guaranteed by government bonds, and since they would pass current in all parts of the country and facilitate exchange between distant sections.

The Bank of the United States was chartered in 1791. The whole stock was immediately subscribed, and the bank was opened for business in December of that year. The results were all that Hamilton had anticipated. The special demand for government bonds brought these certificates up to par and placed the credit of the United States on an assured basis. The national bank notes, convertible beyond question, were everywhere received as equivalent to specie, and the issues of the more dubious state banks were speedily discredited. The success of this

Bolles,
II, Bk. I,
Ch. VII.

Hamilton's
Works,
I, 59-155.

Annals of
Congress,
1789-1791,
II, 2082-
2112.

great financial enterprise once guaranteed, the business interests of the country rallied to the support of the central government. Every man who held United States bonds or dealt in national bank notes was concerned to maintain the solvency of the Federal Treasury. The management of the bank was conservative and wise. As a business enterprise it was eminently successful, paying eight per cent dividends from the start. Nevertheless, when, in 1810 and 1811, the proposition to recharter the national bank came before Congress, there was general opposition on the part of the Democrats, who held that the Federal Government had no constitutional authority to establish such an institution. The partisans of the state banks, moreover, denounced the national bank as un-American, and scorned the "British gold" that had been attracted to this investment. Gallatin, the Secretary of the Treasury, used all his influence in behalf of the bank, declaring that neither the government nor the people could easily dispense with this important financial agent; but in vain. The bill to recharter failed by a narrow majority. In the House the vote stood sixty-five to sixty-four; in the Senate it was defeated by the casting vote of the Vice-President.

The Westward Movement

The first decade of our national history witnessed a great wave of migration into the trans-Alleghany territory. The era of the trapper and the trader, of the "long hunter" and the self-appointed Indian fighter, had passed. The experimental stage was at an end, and now that some measure of peace and security was attained, men of wealth and breeding began to move into Kentucky and Tennessee, taking their families and household goods, together with slaves and capital sufficient to exploit the natural resources of the country. The pioneer farmer gave way to the planter, and tobacco culture and stock raising on a large scale superseded the primitive industries of

Roosevelt,
III, Ch. I,
VI, VIII.

Winsor,
Westward
Movement,
Ch. XIII,
XIV, XVIII.

the back woods. Many soldiers of the disbanded army, finding it impossible to regain industrial foothold in the Atlantic states, came into the newly acquired territory to take up their bounty lands and make a fresh start in life. Emigrants from Ireland, Great Britain, and Germany crossed the sea in ever increasing numbers, seeking in the land that had broken free from Old World trammels opportunity to earn a living as independent farmers. Speculators, too, crossed the mountains, bearing titles more or less valid to vast tracts of virgin forest, hoping to reap fortunes from the inevitable rise in price. Washington had protested against the "rage for speculating in and foreclosing of land on the northwest of the Ohio," asserting that "scarce a valuable spot, within any tolerable distance of it, is left without a claimant for it. Men in these times talk with as much facility of fifty, an hundred and even five hundred thousand acres as a gentleman formerly would do of one thousand." He urged that Congress should fix such a price upon the lands . . . as would not be too exorbitant and burthensome for real occupiers; but high enough to discourage monopolizers."

The Ordinance of 1787. — The settlement of the territory north of the Ohio River was undertaken under national auspices, since the difficulties were too great to be mastered by individual enterprise. The Northwest Territory was occupied by powerful Indian tribes resentful of invasion and ever ready to take the warpath; British garrisons still held strong forts on Lake Erie, — Detroit, Sandusky, and Miami, — pending the adjudication of war claims. Jurisdiction of the territory was disputed by Virginia, Pennsylvania, New York, Connecticut, and Massachusetts, each of which claimed to have inherited some portion from the original British grants. The lands were unsurveyed and the form of government undetermined. The soldiers who had received grants in this wilderness thought them about as valuable as "quarter sections of the moon."

The bringing of order out of this chaos was the last work of the Congress of the Confederation. The several states

McMaster,
III, Ch. XVI.

Winter-
botham,
Hist. View
of the U.S.,
III, 281-339.

Franklin's
Works,
III, 398-409.

Writings of
Washington,
X, 416-419.

Roosevelt,
III, Ch. VI.

Winsor,
Westward
Movement,
Ch. XIV.

Sato,
282-298.

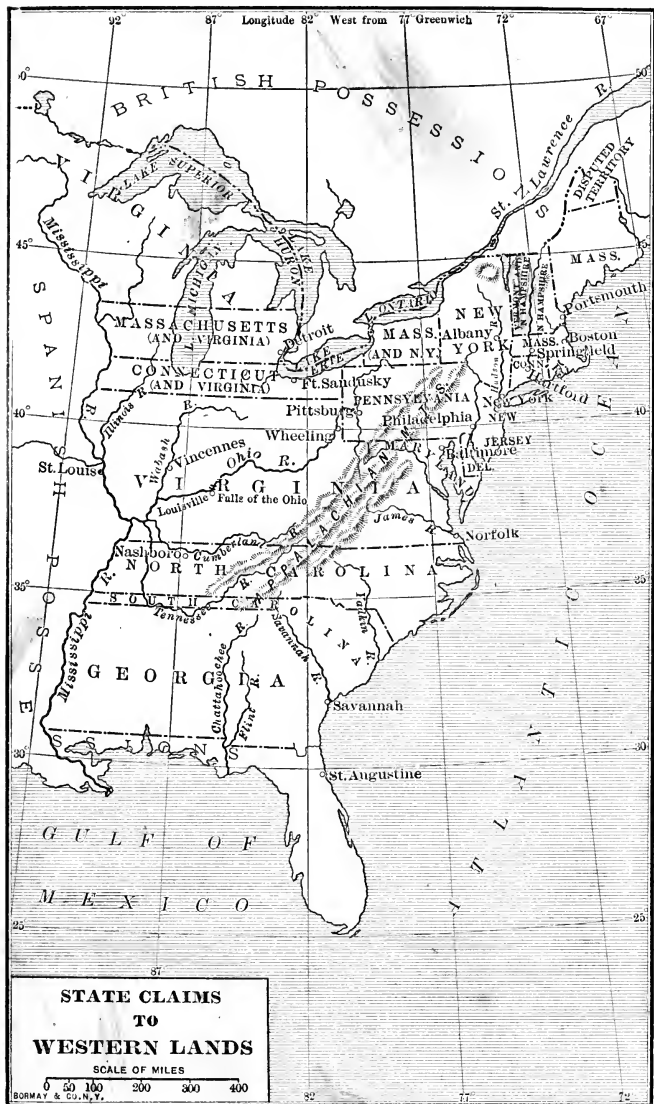
were induced to cede their unsubstantial claims to the central government. United States troops were sent to hold the Indians in check, and peace was finally concluded with the tribes along the Scioto in 1784. A systematic survey of the land was undertaken in the following year. The country was mapped out by ranges into townships, sections, and quarter sections. The section, one mile square and containing six hundred and forty acres, became the typical farm. The land was offered to individual bidder at a minimum price of one dollar per acre, a sum that did not, as it proved, cover the actual cost of survey. In the Seven Ranges, the first of the public surveys, land was sold in tracts of not less than one square mile at \$2 an acre. In 1787 a group of New England men, two hundred and eighty-five of them officers of the Continental army, petitioned Congress to determine the conditions of settlement in that part of the Northwest where their bounty lands were to be located. Their representative, Dr. Manasseh Cutler, submitted the points that the would-be settlers thought essential. They asked for political and civil liberty, religious toleration, and the prohibition of slavery. The Ordinance of 1787 guaranteed representative government to the people who should inhabit the Northwest Territory and provided for the ultimate formation therein of from three to five states that should be coördinate under the Constitution with the original thirteen. Thus was it settled for all time that the new colonies were not to be exploited for the benefit of the parent states, but were to become autonomous and coördinate commonwealths. Schools and the higher education were to be maintained by the proceeds of land sales, one section in every township being reserved for this purpose. By far the most important clause in this fundamental compact between the original states and the settlers of the territory was the stipulation that neither slavery nor involuntary servitude, except for crime, was to be admitted into the region. Persons already held as slaves were not emancipated, and fugitive slaves taking refuge in the territory were to be

Donaldson,
Public
Domain,
Ch. VI.

Sato,
335-378.

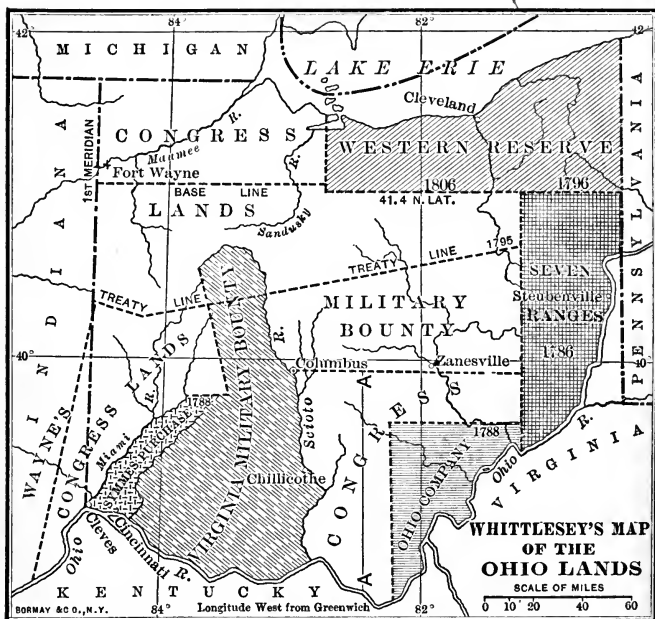
Donaldson,
Ch. V.

McMaster,
III, 514-528.



restored to their masters; but slavery as a labor system was forever debarred.

Immediately after the passage of the Ordinance, the Ohio Company purchased one million five hundred thousand acres of land at the mouth of the Muskingum River and, in New England fashion, founded a town, Marietta, under the guns of Fort Harmar. In the same year the Miami Company,



under direction of J. C. Symmes, purchased one million acres farther down the Ohio, and there, between the Little and Great Miami rivers, Cincinnati was built. Symmes's settlers were also soldiers, but they came from the Middle states. During the latter half of 1787 more than nine hundred boats floated down the Ohio, carrying eighteen thousand men, women, and children and twelve thousand horses, sheep, and cattle and six hundred and fifty wagons.

The westward journey was no longer difficult, dangerous, or even expensive. An experienced pioneer thus describes the trip as it might be made in 1793.

“Travellers or emigrants take different methods of transporting their baggage, goods or furniture, from the places they may be at to the Ohio, according to circumstances, or their object in coming to the country. For instance, if a man is travelling only for curiosity, or has no family or goods to remove, his best way would be to purchase horses, and take his route through the Wilderness ; but provided he has a family, or goods of any sort to remove, his best way, then, would be to purchase a waggon and team of horses to carry his property to Redstone Old Forte, or to Pittsburg, according as he may come from the northern or southern States. A good waggon will cost, at Philadelphia, about £10 (I shall reckon everything in sterling money for your greater convenience), and the horses about £12 each ; they would cost something more both at Baltimore and Alexandria. The waggon may be covered with canvass, and, if it is the choice of the people, they may sleep in it at nights with the greatest safety. But if they should dislike that, there are inns of accommodation the whole distance on different roads. To allow the horses a plenty of hay and corn would cost about 1s. per diem, each horse ; supposing you purchase your forage in the most economical manner, *i.e.* of the farmers, as you pass along, from time to time as you may want it, and carry it in your waggon ; and not of inn-keepers, who must have their profits. The provisions for the family I would purchase in the same manner ; and by having two or three camp kettles, and stopping every evening when the weather is fine upon the brink of some rivulet, and by kindling a fire, they may soon dress their food. There is no impediment to these kind of things, it is common, and may be done with the greatest security ; and I would recommend all persons who wish to avoid expence, as much as possible to adopt this plan. True, the charges at inns on those roads are remarkable reasonable, but I have mentioned

Imlay,
158-160.

those particulars as there are many unfortunate people in the world, to whom the saving of every shilling is an object; and as this manner of journeying is so far from being disagreeable, that in a fine season, it is extremely pleasant." Once arrived at Pittsburg or Wheeling, it was easy to build a flatboat and float down to the intended settlement. After 1787 the Ohio was the popular route—the great artery through which the lifeblood of the nation was driven into the new West. In 1792 there were twenty-five hundred people on the Ohio Company lands, and two thousand in the Symmes settlement. The population of Ohio in 1800 amounted to fifty-five thousand souls.

South of the Ohio.—Into the lands south of the Ohio River settlers were allowed to bring their slaves. Tobacco and hemp could be grown to advantage under the slave system, and the climate was too warm to make field labor popular for the white race. When Kentucky was admitted to the Union in 1792, her constitution contained no restrictions on slavery. When the Southwest Territory was organized in 1790, the Ordinance embodied all the provisions of the Northwest Ordinance except the prohibition of slavery. North Carolina had made her cession conditional on the free importation of slaves into this territory. When the Mississippi Territory was acquired by the United States and its territorial government was established in 1798, all the articles of the Ordinance of 1787 were adopted "excepting and excluding" this much debated restriction.

South of the Tennessee the conditions of settlement differed from those that obtained in the Ohio Valley, north or south. Georgia had withheld this territory from the national jurisdiction for a full decade after the other claimant states had ceded their Western lands. In the interval several speculative land companies had been chartered and allowed to establish title to vast tracts. The lands were sold to the highest bidders without regard to the character of the settlements that might be planted. The purchasers sent their overseers into the country with

Since he had probably put considerable labor and some money into the land, he yielded title only under protest. Congress was frequently petitioned to pass relief acts for individuals or for whole districts, extending the time within which the installments might be paid. Finally (1821) the credit feature of the Act of 1800 was repealed, and the price of agricultural lands was fixed at a dollar and twenty-five cents per acre. All the advantages of the credit system were, however, secured to bona fide settlers by the preemption acts. The first act of this nature was passed in 1801 in behalf of the settlers on the Miami Company's lands. Symmes had failed to fulfill the terms of the contract and the title was forfeited. To prevent injustice to the men who had taken up land within the tract, Congress provided that actual settlers should have first rights in the resale and at a noncompetitive price. Other preemption acts were passed for other special cases until, in 1830, a general law was enacted, which, being renewed from year to year, finally established the "squatter's right."

Need of Transportation Facilities.—The pioneer farmer found no difficulty in supplying his family with the necessities of life—food, shelter, and clothing—but to provide means of purchasing the articles that could not be grown or manufactured on the place, he must dispose of his surplus crops. In case the farm was near a navigable river this might be done, but the man whose land lay one hundred miles back in the interior was fairly smothered in his own produce. Philadelphia was the market to which the settlers in the Ohio Valley looked for the supplies of salt and iron, firearms and gunpowder, without which they could not support life. The goods came by pack horse or wagon over the Lancaster turnpike to Pittsburg and thence down the river to Limestone or Louisville or beyond. During the spring floods there was little hazard in floating even heavily loaded scows over the Falls. The return voyage was more difficult. A crew of six men could pilot a vessel of sixty tons' burthen downstream,

Sample,
Ch. V.

Imlay,
51, 106-107.

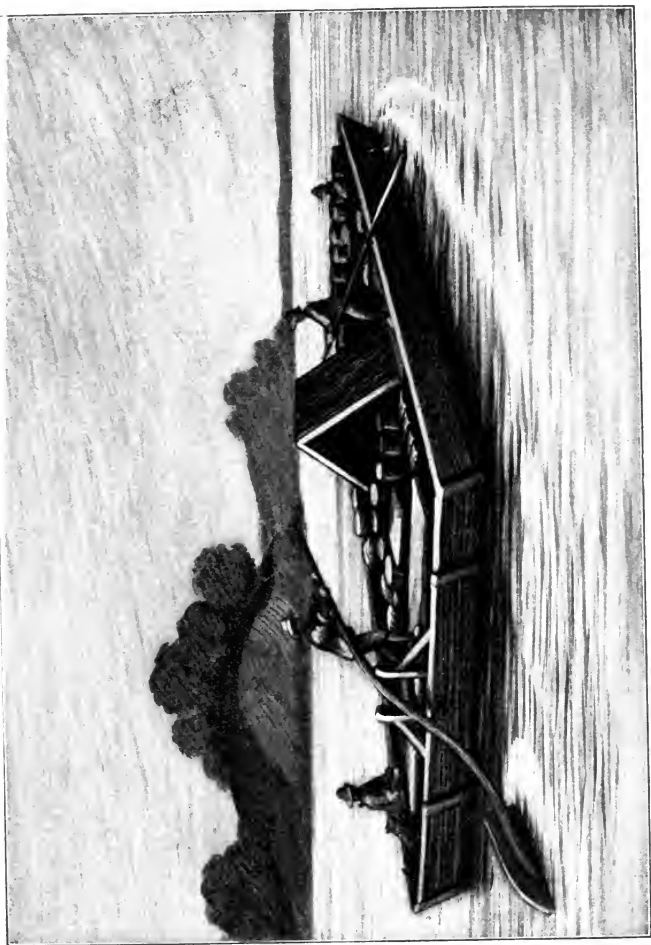
but twenty were necessary to propel a boat of five tons' hold capacity by sail or oar up current. At Louisville the cargo must be unloaded and carried round the Falls. The costs of the return voyage were so great that it was not often attempted. Traders usually broke up the scow into planks and sold them as lumber, preferring to make the eastward journey overland. The products that the Western farmers could send to the seaboard — grain, cattle and hides, hemp and tobacco — were so bulky that the transportation charges ate up all the profits. They exchanged for Eastern manufactures in ruinous disproportion. A cow and her calf were given for a bushel of salt. A suit of "store clothes" cost as much as a farm. The value of most manufactured commodities was enhanced in the American markets by the protective duties that brought the price of foreign goods up to the domestic cost of production.

More promising outlets for Western farm products lay by way of the Great Lakes and the St. Lawrence to Montreal and Quebec, and by way of the Mississippi to Natchez and New Orleans. Either way the advantages of transportation were with the outgoing freight. From these British and Spanish ports, the goods might be shipped to Boston, New York, Philadelphia, or Charleston, or directly to European markets. As trade developed, boats were built at Pittsburg, Marietta, and Louisville and sent directly to the West Indies. The cargoes of grain and salt meat were exchanged for rum and silver. Return traffic, in case the goods were bulky, or could transport themselves, as cattle, horses, and slaves, followed the buffalo trails or the pioneer roads back to the settlements. Since both the British and the Spanish frontiers offered abundant opportunities for smuggling, the profits of this foreign trade were far greater than could be derived from commerce with the Eastern markets. There developed, in consequence, a marked antagonism of interest between the agricultural communities beyond the mountains and the manufacturing sections of the seaboard.

Roosevelt,
I, 116, 122.

Michaux,
Travels
to the West-
ward of the
Alleghany
Mts.,
110.

OHIO FLAT BOAT





The Cumberland Road.—No statesman was more interested in the trans-Alleghany country, or saw more clearly the necessity for adequate transportation facilities, than President Washington. As a young surveyor he had blazed the trail across the divide between the Potomac and the Monongahela, named, from his Indian guide, Nemacolin's path. He was in command of the Virginia troops that widened the trail into the road that was traversed by Braddock's army. Under the royal proclamation of 1763 Washington had been awarded bounty lands on the Ohio River. His holdings between the Great and Little Kanawha amounted to thirty thousand acres. At the close of the Revolutionary War, the ex-commander-in-chief made a journey over the mountains to look after this property. On his return he addressed a letter to Benjamin Harrison, Governor of Virginia, urging that the state undertake the building of a wagon road across the mountains and so establish commercial connections with her trans-Alleghany territory. "The Western settlers (I speak now from my own observation) stand as it were upon a pivot. The touch of a feather would turn them any way. They have looked down the Mississippi until the Spaniards, very impolitically I think for themselves, threw difficulties in their way; and they looked that way for no other reason, than because they could glide gently down the stream; without considering, perhaps, the difficulties of the voyage back again, and the time necessary to perform it in; and because they have no other means of coming to us but by long land transportations, and unimproved roads. These causes have hitherto checked the industry of the present settlers; for except the demand for provisions, occasioned by the increase of population, and a little flour, which the necessities of the Spaniards compel them to buy, they have no incitements to labor. But smooth the road and make easy the way for them, and then see what an influx of articles will be poured upon us; how amazingly our exports will be increased by them, and how amply we shall be compensated for any trouble and expense we may en-

Hulbert,
Washington's Road,
Ch. I, IV, V,
VI.

Hulbert,
Cumberland
Road.

Writings of
Washington,
X, 324, 325,
350-352, 361-
366; XI, 32,
195-199.

Writings of
Washington,
X, 408-409.

counter to effect it. . . . It wants only a beginning. The western inhabitants would do their part toward its execution. Weak as they are, they would meet us at least half way, rather than be driven into the arms of, or be dependent upon, foreigners."

The undertaking thus urged on Virginia was finally accomplished by the Federal Government. In 1802 Congress voted to appropriate one twentieth of the proceeds of the sale of Ohio lands to the making of "public roads leading from the navigable waters emptying into the Atlantic to the Ohio" and on through the Northwest Territory, as might prove serviceable. The Cumberland Road, or the National Turnpike as it was known in its westward extension, diverged from Braddock's Road at Uniontown, Pennsylvania, crossed the Monongahela River at Redstone Old Fort and the Ohio at Wheeling. The surveyors followed a pioneer route, Zane's trace, to Zanesville, but thereafter struck directly west through Columbus, Indianapolis, and Vandalia to a point opposite St. Louis on the Mississippi. The costs of transportation by wagon road are always higher than by water because of the wear and tear on roadbed, vehicle, and draught horses. The bulk of traffic abandoned the pike wherever river transportation was available, *e.g.* at Brownsville on the Monongahela and at Wheeling on the Ohio, but the interior sections of Ohio, Indiana, and Illinois were opened up to settlement and trade in much the way Washington had foreseen.

The Louisiana Purchase. — Beyond the Mississippi lay a vast unknown territory, claimed by France and Spain and France in turn, but tenanted only by untamed Indian tribes. The Creole settlements at St. Louis and St. Charles were straggling villages frequented by trappers and boatmen. The region to north and west was terra incognita. Hunters and Indian traders had pushed up the Mississippi to the Falls of St. Anthony and along the Missouri to the Mandan villages of the Dakotas. Enterprising Americans had visited the trans-Mississippi region and learned something of its infinite possibilities. Daniel Boone, driven from Ken-

McMaster,
III, 463-464.

Writings of
Washington,
X, 375-377,
402-414, 428,
475-476; XI,
42, 163, 359,
360.

Roosevelt,
IV, Ch. VI,
VII.

Semple,
Ch. VI.

Sato,
299-316.

tucky by the inroads of civilization, was hunting and trapping along the Missouri; Philip Nolan was corralling wild horses on the plains threaded by the Brazos River: but as yet the land was not coveted for its own sake. The region west of the Mississippi was important to the frontier settlers mainly because a strong power once established there might dominate the traffic down the river. When Spain ceded the Louisiana Territory to Napoleon, and that ambitious potentate began to project a colonial empire in this realm discovered by La Salle, the Western states and, by consequence, the United States authorities became concerned for the future of Louisiana. A French commandant at New Orleans might withhold the much-contested right of deposit and strangle the trade so essential to the prosperity of the West. Fortunately for the peace of the frontiers, Napoleon had the sense to see that to maintain his rule at New Orleans would cost more men and money than France could well spare. On renewal of the war with England (1803) he was easily induced to cede the whole territory to the United States for \$15,000,000.

No man in that day knew the extent and resources of the region thus suddenly acquired. One Captain Robert Gray of Boston, during a voyage round the world (1792), had come upon the mouth of the great river he named after his good ship *Columbia*. The furthestmost bound of the continent had already been determined by the English explorer, Vancouver, but what lay between the Missouri and the Pacific coast was still to be discovered. At the wise suggestion of President Jefferson an exploring party was sent up the Missouri River to penetrate to its source and beyond the divide, to the rivers that flow into the Pacific. Lewis and Clark set out from St. Louis on their arduous journey in May, 1804. They wintered at Mandan, building a log fort, over which they flew the American flag. The following spring they pushed on up the river to the Great Falls and beyond to the mountain barrier that divides the continent. There they cached their boats and followed the Indian trails leading over the

Winsor,
Narr. and
Crit. Hist. of
America,
VII, 556.

Marvin,
Ch. V.

Laut,
Pathfinders
of the West.

Thwaites,
Rocky Mt.
Exploration,
62-209.

Semple,
Ch. XI.

Gass,
Lewis and
Clark
Journal.

Lolo Pass to the western slope of the Rockies. It was a task of enormous difficulty, but pluck and endurance brought the party at last to the Clearwater River. There they took boats once more and soon reached the Columbia and the shore of the vast sea into which it flows. An English vessel commanded by Broughton, one of Vancouver's officers, had already ascended the Columbia as far as the Cascades and taken possession of the territory in the name of Great Britain. The rival claims thus established remained unsettled for forty years.

In the same year an exploring party, commanded by Z. M. Pike, an army officer, but acting under private auspices, ascended the Mississippi to Leech Lake and unfurled the Stars and Stripes over the British trading posts. In 1805 he struck directly west from St. Louis over the plains to the Arkansas River and reached the Rockies at Pikes Peak. Thence the indomitable explorer conducted his party across the range to the sources of the Rio Grande and the Spanish capital of Santa Fé. Thus were the confines of the newly acquired territory determined.

Pike and Lewis and Clark were instructed to make careful observations of the region traversed. Their journals contain frequent notes on the fauna and flora seen along the route, and they endeavored to ascertain something of the industrial resources of the country. Its vast wealth, mineral and agricultural, and the commercial opportunities of the Pacific coast remained to be developed by a later generation. The only riches immediately available were furs and the profits of Indian trade. John Jacob Astor, a New York merchant who had accumulated a fortune by selling American furs in China, undertook to exploit the fur trade of the Louisiana Territory. He projected a series of trading posts along the Great Lakes and the Missouri and Columbia rivers, and proposed to send his furs to the Orient by way of the Pacific. A land expedition was sent along the Lewis and Clark route, but supplies were forwarded by sea round Cape Horn. After many and costly vicissitudes the two parties met at the

Irving,
Astoria.



CHAPTER VI

INDUSTRIAL CONSEQUENCES OF THE WAR OF 1812

Vindication of the Rights of Neutral Trade

American Grievances. — Jay's treaty had settled none of the weighty commercial questions at issue between England and the United States. Another treaty, negotiated in 1807, was rejected by the Senate as unsatisfactory. It did not provide for the inviolability of neutral trade, nor did it guarantee American sailors against being impressed into British service. English statesmen maintained that the rights and obligations of a British subject were unalienable and that a man born in the British Isles was liable to impressment though he might have naturalized as an American citizen. In pursuance of this policy, British men-of-war were accustomed to cruise outside our harbors, there to overhaul merchantmen as they set sail, inspect the crew, and claim the sailors who could not prove American birth. In the case of the Chesapeake, a cruiser of the United States was forcibly searched, and four men — three Americans and one Briton — were carried off in irons. Not less than six thousand American sailors were thus impressed into the royal navy, and England, hard bested to make good the losses of war, was loath to abandon the practice. Three times the right of impressment had been formally protested by the United States government but without avail. The Foreign Office retorted that thousands of British sailors had deserted from his Majesty's ships and taken service on American vessels, where higher wages and more humane treatment might be expected.

McMaster,
III, 240-335.
Hildreth,
VI, 31-57,
84-136, 187-
206, 300-310.
Annals of
Congress,
1814-1815,
1417-1452.

Annals of
Congress,
1814-1815,
1451.

Not our seamen only, but our mercantile interests were in jeopardy. England was mistress of the seas. The French fleet had been destroyed at Trafalgar, and European nations, whether friends or foes of Napoleon, dared not risk a vessel out of port. No flag appeared upon the high seas but the Union Jack and the Stars and Stripes. The war had thrown the European carrying trade largely into the hands of American shipmasters, the United States being the only neutral nation possessed of a considerable merchant marine. Jealous of the commercial gains accruing to this formidable rival, English merchants and ship-owners sent in vigorous protests, and the government set about devising a remedy. An order in Council of 1793 had declared "all vessels loaded with goods, the produce of any colony of France, or carrying provisions or supplies, for the use of any such colony, liable to seizure." Under this order British men-of-war were authorized to waylay merchantmen bound to or from the French West Indies and confiscate the forbidden goods. This policy had important advantages for Great Britain. France was deprived of supplies from her colonies, the English treasury was enriched, and losses were inflicted on American trade by one and the same seizure. In 1806 the coast of Europe from Brest to the Elbe was declared under blockade. A neutral vessel attempting to make any intervening port was lawful prize. Many an American ship, falling foul of a British man-of-war, was captured and conveyed to a British port, there to be sold for the benefit of her captors. Her owners and the merchants who had shipped the cargo were wholly without remedy.

The object of the order of 1806 was to punish Holland and Belgium for alliance with the enemy. Napoleon, fully master of the Continent since the peace of Tilsit, met this attack by a counter stroke. The Berlin Decree closed all European ports to British vessels and British merchandise. England immediately retorted by an order in Council announcing that no neutral ship might trade with France or her allies until she had first touched at a British port

and paid reëxportation duties there. Napoleon's Milan Decree declared every vessel complying with the British order "denationalized" and subject to seizure. Neither Great Britain nor Napoleon made any serious attempt to enforce these blockades by an adequate naval force, but the decrees served to justify the seizures of neutral vessels made occasionally by men-of-war, more often by privateers licensed by the warring powers.

The losses inflicted on American commerce were too heavy to be patiently borne, and Congress was besieged by petitions from the merchants of the seaports — Salem, Boston, New York, Philadelphia, and Baltimore — setting forth the "great injuries suffered by the aggressions of the belligerent powers" and demanding protection. The authorities were perplexed. President Jefferson, a Virginian and a planter, had no adequate conception of the importance of the interests involved. He desired above all things to avoid war, and he hoped to bring both powers to terms by depriving them of the benefits of American trade. In a special message (December 16, 1807) he recommended to Congress "the inhibition of the departure of our vessels from the ports of the United States." Within the week the suggestion of the President became the law of the land. The Embargo Act prohibited American vessels already in harbor sailing for a foreign cruise. Every vessel returning to port was detained. Merchantmen owned by foreigners were excluded from American waters. The United States navy and the revenue cutters were placed at the disposition of the executive for the enforcement of this order. Thus not only transatlantic trade but the profitable commerce with the French, Dutch, and Spanish West Indies that had developed during the European war was brought to a standstill. Only the coastwise trade remained open to our merchant marine. Lest this afford chance to venture out to sea, no vessel, not even the smallest fishing smack, was allowed to sail without giving bonds, double the value of her cargo, to reland the same in the United States. In case of

McMaster,
III, 412-417.

Marvin,
Ch. VII.

violation both cargo and vessel were forfeited, while owner and captain were subject to heavy fines.

The effects of the Embargo were soon evident in diminished trade. The value of the imports of 1808 was not half that of 1807. The exportations of the Embargo year shrank to one fifth those of the previous twelve months. Nevertheless, the decline in tonnage registered under the United States flag for the foreign trade was but slight. Some ships were sold to English firms or registered under the British flag, but most shipowners let their vessels lie idle at the wharfs, hoping for a reversal of the disastrous administration policy. Some defiant sea captains avoided the home ports altogether and made voyage after voyage between foreign lands, preferring to run the risk of capture rather than incur the sure losses of detention in an American harbor. Prices of foreign commodities doubled ; prices of domestic goods fell below the cost of production. The \$50,000,000 of capital invested in shipping brought in no revenue. Thirty thousand out of forty thousand American sailors were suddenly thrown out of employment. Farmers unable to dispose of their produce offered their lands for sale. Lumbermen and fishermen were reduced to beggary. The mercantile classes suffered no less. In New York the Embargo caused one hundred and twenty bankruptcies and threw twelve hundred unfortunates into the debtors' prison. An English traveler thus describes the first commercial city in the United States after five months of this ruinous régime : " The port, indeed, was full of shipping ; but they were dismantled and laid up. Their decks were cleared, their hatches fastened down, and scarcely a sailor was to be found on board. Not a box, bale, cask, barrel, or package was to be seen upon the wharfs. Many of the counting houses were shut up, or advertised to be let ; and the few solitary merchants, clerks, porters, and labourers that were to be seen, were walking about with their hands in their pockets. Instead of sixty or a hundred carts that used to stand in the street for hire, scarcely a dozen appeared, and they were unemployed ; a

Chart, Ex-
ports, Im-
ports, Ton-
nage, p. 229.

Lambert,
Travels
through Can.
and U.S.,
II, 64-65.

few coasting sloops, and schooners, which were clearing out for some of the ports in the United States, were all that remained of that immense business which was carried on a few months before. . . . The streets near the water-side were almost deserted, the grass had begun to grow upon the wharfs, and the minds of the people were tortured by the vague and idle rumours that were set afloat upon the arrival of every letter from England or from the seat of government."

When the Embargo gave way to nonintercourse with Great Britain (1809) Americans speedily availed themselves of the golden opportunities of neutral commerce. By 1810 our tonnage registered for foreign trade had reached 981,019, the highest point in the first sixty years of our national history, while the proportion of foreign trade carried on in United States vessels, which had fallen from 92 per cent to 86 per cent under the influence of the Embargo, recovered to 91.5 per cent.

The War. — Jefferson's abstention policy served neither to vindicate the rights of neutral trade nor to avert war. Napoleon made a pretense of repealing the Berlin and Milan decrees, but imposed restrictions on American commerce no less burdensome. England abolished the reëxportation duties, but prohibited the carrying of American products, notably cotton, to Continental ports. The impressment of seamen continued unchecked. In 1811 a congressman asserted that ten thousand American seamen had been kidnaped for the English service. War was declared in June, 1812. Our coasts were quickly infested by a British fleet, and commerce with Europe was carried on at great risk. The war tariff of July 1, 1812, doubled and trebled the duties on imported commodities. Imports and exports rapidly declined. Their combined value in 1814 was but \$20,000,000, one seventh of the foreign trade of 1810. Our shipowners faced ruin. The temptation to revenge the seizures and confiscations of the ten years preceding by direct retaliation on British commerce was too strong to be resisted. Spite of scruples

Maclay,
225-226, 503-
506.

Abbot,
Ch. V.

as to the rightfulness of privateering, many shipowners took out letters of marque and reprisal and armed their vessels for war. Every species of craft — merchantman, coasting schooner, pilot boat, and fishing smack — was fitted up with guns and ammunition and sent out to prey upon the enemy. From Salem, Gloucester, Marblehead, and Newport, from New York, Philadelphia, and Baltimore, scores of privateers put out to sea. Even the Southern ports — Norfolk, Wilmington, Charleston, Savannah, and New Orleans — sent a considerable contingent. Sixty-five vessels were commissioned as privateers in the first three weeks of the war, one hundred and fifty in the first two months. During the summer of 1812 one hundred prizes were taken, and but fifty vessels were lost to the enemy, only thirteen of these being privateers. During the three years of war the five hundred and fifteen privateers commissioned by the United States captured over thirteen hundred British vessels, most of them merchantmen carrying valuable cargoes. Congress allowed a rebate of one third the import duty on captured goods and offered twenty-five dollars for each prisoner taken.

The War of 1812 was a naval war. The exploits of our little navy, coupled with the devastations wrought by our privateers, forced Great Britain to recognize that a rival maritime power had arisen. The victories won by our men-of-war in the English Channel, in mid-Pacific, on the Great Lakes, and in the Caribbean Sea finally convinced the English government that the United States must henceforth be treated with respect. But the immediate result was not commensurate with our successes. The Peace of Ghent adjudicated certain open questions as to boundaries and the status of hostile Indian tribes, but settled none of the prime matters in dispute. The American contentions that free ships should make free goods and that the flag should protect the crew were not incorporated in the treaty, nor would the British commissioners consent to define a legitimate blockade. Nevertheless, England quietly dropped her much-prized right of im-

Annals of
Congress,
1814-1815,
1285-1298,
1383-1398.

pressing Americans into her service. Having proved their ability to defend themselves, our seamen were thereafter free from molestation. The added prestige won by the United States in the War of 1812 was voiced by the London *Times*. "Their first war with England made them independent; their second made them formidable."

The Reciprocity Treaties. — In the first two years following on the Peace, our shipping interests experienced a remarkable revival of prosperity. The total volume of trade in 1816 amounted to ten times that of 1814. The tonnage registered for foreign trade rose from 674,633 to 860,760. But this welcome prosperity was short-lived. By 1821 the foreign commerce of the United States had shrunk to half the proportions of 1816, and our ocean tonnage was less than in 1797. A variety of causes contributed to this lamentable decline. The protective tariff of 1816 which discouraged importation, the business crisis of 1819 which curtailed investments, the development of manufactures and domestic trade that tended to make us independent of foreign trade, doubtless injured the shipping interest; but the heaviest blow was struck when Congress substituted reciprocity for the discriminating duties that had hitherto protected American vessels against English competition. With the intention of freeing our ships from the restrictions imposed in British and European ports, we offered our rivals reciprocal free trade. Discriminating tonnage duties and excess duties on goods imported in foreign vessels were to be repealed in so far as they affected the countries that should abolish all discrimination against the shipping of the United States. Great Britain was the first nation to avail herself of this generous offer. On July 3, 1815, a convention was concluded providing that "there should be between the territories of the United States and all the territories of His Britannic Majesty in Europe reciprocal liberty of commerce." Our discriminating tonnage and customs duties were relinquished in exchange for the privilege of entering British ports without let or hindrance; American vessels were to be "admitted and hospitality

Bates,
98-129.

Marvin,
Ch. IX.

Pitkin,
Statistical
View,
Ch. VIII.

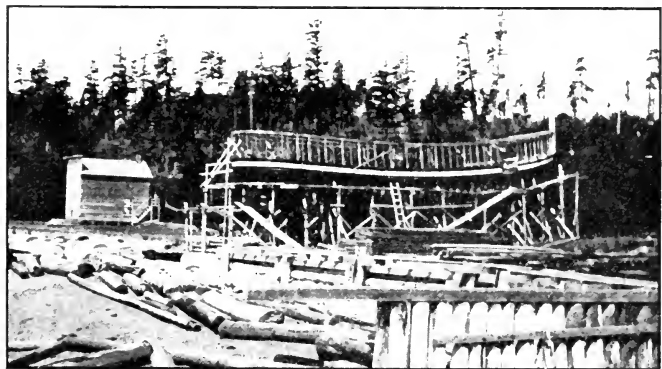
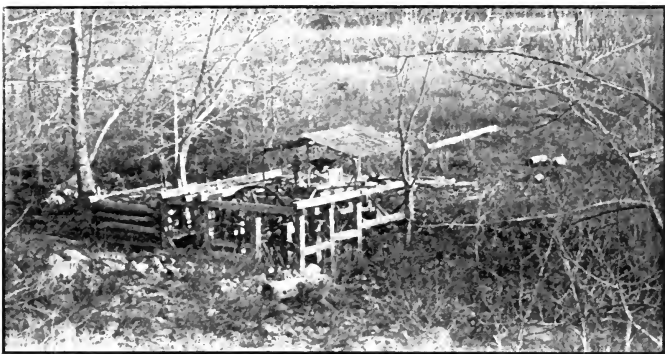
Annals of
Congress,
1814-1815,
263-267.

Annals of
Congress,
1815-1816,
1478-1506.

received at the principal settlements of the British dominions in East India"; but the ports of the British West Indies remained closed for fifteen years longer, and maritime trade with Canada was under the ban until 1850.

It is an open question whether we got more than we gave in this, and the reciprocity treaties subsequently negotiated with Sweden, the Netherlands, Prussia, Spain, the Hanseatic cities—Hamburg, Bremen, and Lübeck—Oldenburg, Sardinia, and Russia. During the following decade there was some increase in American tonnage engaged in foreign trade, but not in proportion to the increase in population and wealth. Tonnage per capita steadily declined. The volume of foreign commerce gained but slowly. The figures of 1806 and 1807 were not again reached until 1835. Notwithstanding British competition, our shipmasters managed to increase their proportion of transatlantic commerce for the first ten years of reciprocity. A line of fast-sailing packets was established between New York and Liverpool in 1816–1817 and another in 1821–1822. A third line plied to London and Havre after 1822, and a direct line to Havre after 1832. Our paramount advantages for the building of sailing ships enabled us to offer the most favorable terms, and thus for a time to monopolize foreign commerce under a régime of a free field and no favors. This advantage was largely done away with by the tariff of 1828, which imposed heavy duties on bolt iron, copper, canvas, hemp rope, etc., while offering no compensating protection to shipping interests. The British tonnage entering our ports was 78,947 in 1830, the year following it rose to 143,806, and the average for the decade 1830–1840 was 212,661. Under this keen competition freight rates fell disastrously. The proportion of foreign trade carried in American vessels dropped from 92.5 per cent in 1826 to 82.9 per cent in 1840.

The real gainers from the reciprocity policy were not the shipowners but the farmers and planters, whose surplus products were sent to foreign markets at declining freight rates. The value of our cotton exports rose from



FROM THE FOREST TO THE SHIP



\$24,106,000 in 1816 to \$36,846,000 in 1825, and \$64,661,000 in 1835. During the same time the exports of wheat, flour, rice, and tobacco barely held their own, not because of any check in the foreign demand, but because all available soils were converted to cotton culture. The rice and indigo plantations of Georgia and South Carolina were turned to the growing of Sea Island cotton; the wheat fields of the "back country" were planted to the "green seed," or short staple variety. Production increased from 156,000 bales in 1800 to 340,000 in 1810, and 458,000 in 1816, and 606,000 in 1820. From one half to two thirds of the crop was exported. It was estimated that \$40,000,000 was invested in cotton plantations, and that the planters cleared fifty per cent on their investment during the years of high prices.

Michaux,
344-346.

Hammond,
31-33, and
Appendix.

The Fisheries. — Another New England industry that felt the ill effects of the war was the cod fishery. Freedom to fish off the Grand Banks and in other Canadian waters had been fully conceded in the treaty of 1783. Our commissioners were instructed to secure an equivalent concession in the Peace of Ghent, but they failed to do so. The English government declared that this was a privilege, not a right, and that it had been abrogated by the war. The vexed question was adjudicated in 1818. American fishermen secured the "liberty" to fish within certain limited areas and to use such adjacent coasts as might be unsettled, for curing their fish. Populated bays and harbors could be entered by our fishing smacks only when in need of shelter, repairs, wood, and water. The Canadians demanded that in return for these favors their fish should be allowed full entry into the United States. The fishing interest protested against throwing open our markets, and the war duties of one dollar a quintal on dried and eighty-five cents on pickled fish were retained. On the other hand, the Americans were not allowed to send fish into the British West Indies. The dispute engendered much bitter feeling and even led to violent contests between the rival parties.

McMaster,
IV, 457-469.

Schuyler,
Am. Diplo-
macy,
Ch. VIII.

Henderson,
Am. Dipl.
Questions,
471-500.

Abbot,
Ch. IX.

Marvin,
Ch. XIII.

Development of Manufactures

Bishop,
II, 146-168,
188-214.

At the beginning of the nineteenth century, in spite of the encouragement, legislative and otherwise, that had been given to manufactures, the United States was still in the main an agricultural nation. We were producing more both of food products and raw materials than were consumed in the country, and we could not provide manufactured commodities sufficient to supply the home market. In the natural course of trade, our exports of raw materials and food stuffs paid for the imports of manufactured goods. This was satisfactory to the shipping interest since it ensured profitable cargoes, to the farmer since it opened foreign markets for his produce, and to the consumer since he secured goods of the best quality at low prices; but it placed manufactures at a disadvantage.

Bagnall,
I, Ch. X.

Cotton Manufactures. — The Embargo, the Nonintercourse Act, and the War of 1812 gave domestic manufactures a virtual monopoly of the home market for a period of seven years. The exclusion of English goods, now as during the Revolutionary War, threw the country upon its own resources. Commerce at an end, business enterprise turned to manufactures as the most promising available venture. Much of the capital withdrawn from shipping was invested in cotton mills. Slater's success at Pawtucket had demonstrated the possibilities of this new textile industry, and men trained under his eye went out to set up rival establishments. The mills at Slatersville, Rhode Island, Pomfret, Connecticut, and Union Village, New York, were direct offshoots from the "Old Mill." For the first ten years development was slow. In 1804 four mills were in successful operation. When, however, English competition was excluded, an epoch of extraordinary progress opened. In 1807 there were fifteen cotton mills running 8000 spindles and producing 300,000 pounds of cotton yarn annually. In 1811 there were eighty-seven mills operating 80,000 spindles, producing 2,880,000 pounds of yarn per year and employing 4000 men,

women, and children. In 1815, 500,000 spindles gave employment to 76,000 persons, with a pay roll of \$15,000,000 per year. Rhode Island was the center of this flourishing industry. Within thirty miles of Providence were one hundred and thirty mills running 130,000 spindles and employing 26,000 operatives. But other states were not far behind. Massachusetts chartered fifty textile companies between 1806 and 1814; New York chartered fifteen such corporations in the year 1813. There were five spinning mills in Paterson, New Jersey, and eleven in Baltimore. The mills of New England were generally run by water power, those of the West and South more often by horse power. Steam was first successfully used as a motor for spinning machinery in 1810, at Ballston, New York.

The yarn spun in the mill was as yet woven on hand looms in the homes of the neighboring countryside. Many efforts had been made to imitate the power looms introduced into the cotton factories of England twenty-five years before. Machines had been patented in 1803 and 1804, but they proved impracticable. In 1814 Francis C. Lowell returned from a European sojourn bent on establishing in Massachusetts a cotton factory such as he had seen in England. He devised and constructed the first successful power loom set up in this country, and built in Waltham the first cotton mill in which all the processes of spinning, weaving, and printing were carried on under one roof. The venture was a brilliant success. Other looms were rapidly built and other factories equipped with this labor-saving device. The machine was soon adapted to the weaving of sheetings, gingham, and sail duck. Improvements were made in the processes of carding, spinning, and calendering, and in the central motor power. The work was so simple that the looms could be tended by women and the spinning frames by children, so that the more expensive labor of men was required only for the heavier tasks. From five to six sevenths of the operatives were women and children. Tench Coxe, writing in 1813, waxed eloquent over the industrial miracle achieved.

Appleton,
Introduction
of the Power
Loom.

Census, 1860
Manufac-
tures,
xv-xx.

Am. State
Papers,
Finance,
II, 666-689.

"These wonderful machines, working as if they were animated beings, endowed with all the talents of their inventors, laboring with organs that never tire, and subject to no expense of food or bed or raiment or dwelling, may be justly considered as equivalent to an immense body of manufacturing recruits, enlisted in the service of the country."

The value of our cotton manufactures in 1810 was \$4,000,000; in 1815 it was \$19,000,000, and nearly adequate to the needs of the country. The supply of raw cotton kept pace with the demand. In 1800 the spinning mills consumed 500 bales of cotton, in 1805, 1000 bales; ten years later 90,000 bales were required to feed the half million spindles. Notwithstanding the increased domestic consumption, the price of cotton wool fell from 24 cents a pound in 1800 to 16 cents in 1810 because the English market was closed.

Woolen Manufactures.—Cotton was "our only redundant raw material." The development of woolen manufactures, on the contrary, was retarded by the scarcity of wool. The effort to promote the raising of sheep, set on foot during the Revolutionary War, had not been very successful. The climate of New England, where the agitation was most earnest, proved too severe. Most of the wool made up in the United States was still imported in the first decade of the nineteenth century, the finer grades from Spain, Portugal, and Saxony, the coarse from Russia, Syria, and South America. The epoch of nonintercourse brought the necessity for a domestic supply forcibly before the public. Just at this juncture the Peninsular War threw the Spanish flocks upon the market. Enterprising farmers began importing merino sheep, and by 1809 there were five thousand in the country. In 1811 was organized the Merino Society of the Middle States. Prizes were offered for essays on sheep husbandry and for the best specimens of the Spanish breed. The farmers of New York and New Jersey vied with each other in the quantity and quality of their wool clips. Prices justified heavy expenditure; merino wool

sold at seventy-five cents a pound in 1811 and ranged from two to three dollars in 1813.

The textile machinery so successful in cotton manufacture was soon adapted to the spinning and weaving of woolen cloth. The manufacture of broadcloth was first attempted by two young Englishmen, the Scholfield brothers, who set up a carding machine, a spinning jenny, and a hand loom at Newburyport in 1794. The business was soon transferred to Pittsfield, where the Housatonic River furnished reliable water power; and during the non-importation period a successful industry was established. Here was woven the material for the suit of domestic broadcloth in which President Madison was inaugurated. The power loom was introduced into woolen manufacture by Rowland Hazard at South Kingston, Rhode Island. Hazard had made a fortune in the West India trade, but having lost heavily by confiscations under the orders in Council, he purchased the water power on Rocky Brook and devoted his energies to cloth manufacture. The machine he introduced was intended to weave boot, suspender, and girth webbing, but it was found that the work could be better done on the hand loom. The enterprise was, however, pursued with courage and persistence, until, by 1828, a complete woolen factory, equipped with carding, spinning, and weaving machinery, all run by water power, was in full operation.

Iron Manufactures were furthered by the discovery of a new fuel, — anthracite coal. When the first ark load of "stone coal" was brought down the Lehigh and Delaware rivers to Philadelphia in 1803, it was thought good for nothing but to "gravel foot-walks." The difficulty of igniting the lumps seemed an insuperable obstacle to its use as fuel. One Joseph Smith, the inventor and manufacturer of the iron plowshare, conceived the idea (1812) of building his fire over a grating so as to secure a stronger draft. The plan was successful. Heat sufficient to fuse iron was readily developed. The War of 1812 cut off the cargoes of bituminous coal from England, and since, with the clear-

Bagnall,
I, Ch. VIII,
X, XI.

Census, 1860,
Manufactures,
xxix-xxx.

Nicolls,
Story of Am
Coals,
Ch. IV.

ing of the forests, the supply of wood was growing scant, the iron masters of eastern Pennsylvania were forced to utilize the despised anthracite.

The most important development in the iron industry was west of the Alleghanies. Ore was discovered in the valley of the Youghiogeny and a furnace set up in 1790. In 1805 there were five furnaces and six forges in Fayette County. Three rolling and slitting mills and a steel furnace were successfully established by 1811. The iron deposits of the river valleys to the north were being developed in the same period. Pittsburg was the natural center for this rising industry because of her unexcelled advantages in the way of water transportation. Ore and pig iron were floated down the Allegheny River and the Monongahela to the foundries, rolling mills, and nail factories of the Smoky City. In 1810 two hundred tons of cut and wrought nails were made here. The output of the iron works of western Pennsylvania—nails, hinges, locks, and builders' tools, axes, spades, plows, and harrows for field work, knives, pots, skillets and spinning-wheel irons for household use—were shipped down the Ohio to the settlements, and on by way of the Mississippi to New Orleans. Sugar kettles were supplied to the cane plantations of Louisiana in 1804. The Pittsburg ironmongers had the advantage of abundant supplies of ore and charcoal in the immediate vicinity, and could easily undersell the wares sent overland from Philadelphia. Iron was fast becoming the dominant industry of Pennsylvania east and west. The state boasted, in 1810, forty-four blast furnaces, seventy-eight forges, eighteen rolling and slitting mills, and one hundred and seventy nail factories where nails and brads were cut by machinery. Pennsylvania was then furnishing half of the cast iron produced in the United States.

According to Gallatin's Report on Manufactures, the total manufacturing output of the country in 1810 was valued at \$121,000,000. In manufactures of wood, paper, leather, tallow, spermaceti, whale oil, and molasses, we were producing enough to supply the domestic market.

Swank,
Ch. XIX,
XX.

Am. State
Papers,
Finance,
II, 425-431.

The output of the iron works was sufficient within three thousand tons. The tobacco and hat manufacturers were exporting their surplus stocks. According to Tench Coxe's more careful estimate, the annual value of our manufactures, factory and domestic, was \$198,000,000, of which four fifths was produced in Pennsylvania, New York, Massachusetts, Virginia, and Maryland.

The Effects of Peace. — British statesmen began to realize that their orders in Council, coupled with the consequent war, had rid them of American rivalry on the sea, only to develop domestic manufactures to the point where the United States would soon be independent of Great Britain. Cobbett, the economist, declared, "We have before us the seeds of a great event, — nothing less than the complete and absolute independence of America upon English manufactures." A Parliamentary commission reported: "It clearly appears that those manufactures have been greatly promoted by the interruption of intercourse with this country, and that unless that intercourse be speedily restored, the United States will be able to manufacture for their own consumption."

The conclusion of peace threw open our ports once more to foreign trade. English manufacturers, eager to regain control of the lost markets, sent in shiploads of cotton and woollens and iron manufactures, which they offered on the most liberal terms to their agents in this country. The goods were taken on credit and disposed of at auction. The object was to undersell at any cost, and thus break down the infant industries. Lord Brougham justified the speculative character of this trade on the ground that "it was well worth while to incur a loss upon the first exportation, in order, by the glut, to stifle in the cradle those rising manufactures in the United States which the war had forced into existence contrary to the natural course of things." The importations of 1815 from Great Britain alone amounted to \$83,000,000, those of 1816 came to \$155,000,000. The woolen mills closed down. Entrepreneurs like Scholfield were ruined. The price of wool fell in the domestic

Bishop,
II, 146-160.
212, 213.

Bolles,
II, Bk. II,
Ch. IV.

Nile's
Register,
I, 164.

Nile's
Register,
IV, 105.

Taussig,
Tariff Hist.
U.S.,
Ch. II.

Bolles,
II, 387-391.

Hansard's
Debates,
First Series,
XXXIII,
1099.

Pitkin,
Statistical
View,
261.

market, and the surplus wool clip was sent to England. Many of the costly merino sheep were killed for mutton and tallow. The iron manufacturers of the seaboard put out their fires. All but five of the forty plants of Morris County, New Jersey, were prostrated. The works were sold at auction, and the employees scattered. Some furnaces and forges were kept running by the farmers, but the eastern industry as a whole was ruined. The iron foundries of Pittsburg were adequately protected by the expense of transporting these bulky goods across the mountains. Fifty miles of land carriage cost as much as the ocean freight from Sweden. But the bagging industry of Lexington, Kentucky, was unable to cope with English competition. Imported cotton bagging flooded the country at prices far below the normal cost of production.

An outcry against this destructive competition was raised by the men who had invested their capital in the new industries. Forty memorials from as many infant industries and manufacturing centers were sent up to Congress in the session of 1816-1817. The cotton manufacturers of Massachusetts, Connecticut, and Pennsylvania petitioned for protection against the low-priced goods from England and India. The paper manufacturers and printers protested against the competition of Holland and France. The sugar planters of Louisiana, the cordage manufacturers of Massachusetts, the hat makers of New York, the gunsmiths of Lancaster, Pennsylvania, and the proprietors of the hemp factories of Lexington, Kentucky, were no less insistent on protection. The merchants of New York City denounced the auctioneers and asked that a ten per cent tax be levied on such sales. The Pittsburg memorialists complained "that the manufacture of cottons, woolens, flint glass, and the finer articles of iron has lately suffered the most alarming depression. Some branches which have been for several years in operation have been destroyed or partially suspended; and others, of a more recent growth, annihilated before they were completely in operation. The tide of importation has inundated our country with foreign goods. Some of the

Am. State
Papers,
Finance,
II, 367, 465;
III, 32, 52, 56,
452, 454, 460.

Am. State
Papers,
Finance,
III, 168,
440-444.

White,
Memoir of
Slater,
210, 211.

most valuable and enterprising citizens have been subject to enormous losses, and others overwhelmed with bankruptcy and ruin. . . . In the United States we have the knowledge of the labour-saving machinery, the raw material, and provisions cheaper than in Britain; but the overgrown capital of the British manufacturer, and the dexterity acquired by long experience, make a considerable time and heavy duties necessary for our protection. We have beaten England out of our markets in hats, boots, and all manufactures of leather; we are very much her superior in ship building; these are all the work of the hands, where labour-saving machinery gives no aid; so that her superiority over us, in manufactures, consists more in the excellence and nicety of the labour-saving machinery, than in the wages of labour."

The diverse interests of shipowners and purchasers were likewise represented. The merchants of Salem, Philadelphia, Baltimore, and Charleston urged the reduction of the war duties in the interests of trade. Virginia, voicing the interests of consumers, sent up five petitions against a protective tariff. War prices, double and treble normal rates, might bring high profits to the manufacturer and to the producer of raw materials, but they imposed a heavy tax on the outside public.

The Tariff of 1816.—Dallas, then Secretary of the Treasury, submitted to Congress (February 12, 1816) a report on the revision of the war tariff. He advocated unreservedly the protection of domestic manufactures. Domestic industries he classified under three heads. First, those firmly established whose products were adequate to the needs of the country, such as carriages, cabinet wares, cordage, hats, firearms, window glass, boots, shoes, and paper. On these, the Secretary recommended duties practically prohibitory, on the ground that competition among domestic producers would soon lower prices. Second, the infant industries not yet sufficiently developed to supply the demand, but in a fair way to do so, such as cotton and woolen manufactures of the coarser grades, iron,

Am. State
Papers,
Finance,
III, 463, 484,
518.

Am. State
Papers,
Finance,
III, 447, 458.

Am. State
Papers,
Finance,
III, 85-95.

Bolles,
II, Bk. III,
Ch. III.

McMaster,
IV, Ch.
XXXI.

Rabbeno,
146-183.

tin, and brass manufactures, spirits, ale, and beer. On these, protective duties were proposed in the belief that the ultimate advantages would more than compensate the consumer for the temporary advance in price. Third, industries in which this country was still heavily handicapped by lack of machinery or skilled laborers, such as high-grade cottons and woolens, silks, linens, muslins, carpets, hosiery, hardware, cutlery, porcelain, flint glass, etc. On these, duties should be high or low as the interests of the revenue might determine. Duties should not be imposed on the raw materials of the manufacturers, especially in the case of the shipbuilders, "which latter interest must be respected at a time when the equalization of duties on tonnage and merchandise will probably give rise to an interesting competition between our own vessels and those of foreign nations." In the bill introduced by Lowndes of South Carolina, 30 per cent ad valorem was proposed on commodities of the first class, 25 per cent on those of the second, while duties on the revenue list ranged from 7.5 per cent to 15 and 30 per cent. At the suggestion of Francis C. Lowell, coarse cottons were given a special form of protection in that a minimum valuation of 25 cents a yard was set upon all imported goods. The effect was to exclude the cheaper grades hitherto imported from India and, as the Salem memorial pointed out, to reduce the East India trade by half. The ironmasters secured specific duties of 45 cents per hundredweight on hammered and \$1.50 per hundredweight on rolled iron, and from 3 cents to 5 cents a pound on tacks and nails. An ad valorem duty of 20 per cent was levied on other iron manufactures and on pig iron, the output of the farm furnaces. The measure of protection secured by rolling mills and nail factories was conceded to be ample, but the tariff proved insufficient to shut out Swedish and English imports, and an increase was granted in 1818. The duty on hammered iron was raised to 75 cents per hundredweight, and that on pig iron to 50 cents per hundredweight. The war duty on salt (20 cents per

Taussig,
Tariff Hist.
U.S.,
27-36.

Taussig,
Tariff Hist.
U.S.,
46-59.

bushel) was continued, although the domestic product, 600,000 bushels per year, was far short of the demand, and the annual importation amounted to 3,000,000 bushels. It was urged that the saline springs of New York, Kentucky, and Indiana could soon supply the seaboard market if an adequate measure of protection were accorded. Specific duties of 10 cents and 15 cents per gallon were laid on ale and beer in the interest of the breweries, but more especially to increase the demand for rye, barley, and hops as a solace to the producers of those cereals. The high duties levied on distilled spirits during the war were but little reduced, and the excess of from 4 cents to 7 cents levied on spirits distilled from grain was maintained in the interest of corn growers. The rum interest, so prominent in the tariff debates of the first decade of Congressional history, was less influential now. The war duty on molasses was cut in half, but 5 cents per gallon was double the rate imposed in 1789. This tax on their raw material was protested in a petition sent up by the rum distillers of Boston in 1820. Speaking for a "very old manufacture," whose plants represented an investment of \$1,000,000, and in the interest of the flagging West India trade, they deprecated any increase of the duty. But a new and diverse interest had arisen. The cane growers of Louisiana asked not only for a protective duty on molasses but on sugar as well. The planters had built ninety-one refineries at an expense of \$3,500,000, and were producing \$1,000,000 worth of sugar annually, and they secured consideration. The war duties on the various grades of sugar were reduced but one third. The tax on refined sugar held at 12 cents a pound until 1842.

Clash of Sectional Interests.—The stronghold of the campaign for protection was in the Middle and Western states. The manufacturers of New York, New Jersey, and Pennsylvania were supported by the farmers of Ohio, Kentucky, and Tennessee, whose wool, hemp, and flax brought better prices in a protected market, and by the

Am. State
Papers,
Finance,
III, 522.

Bishop,
II, 161.

Bolles,
II, 363, 367,
394.

Dewey,
Ch. VIII.

planters of Louisiana, who, handicapped by disadvantages of soil and climate, could not compete with the sugar growers of Cuba and Jamaica unless protected by a tariff wall. In New England there was a conflict of interests. Conservative men were attached to the established industries, each and all of them menaced by the protective policy. The effect of high duties was to diminish the volume of trade, increase the cost of shipbuilding, and raise the price of raw materials for rum, cordage, and other important manufactures. The textile interests, on the other hand, favored high duties. By 1820 Rhode Island and Connecticut had come over to the protectionist camp. Meantime, Southern statesmen had announced themselves squarely against protection. It had become evident that, spite of great natural advantages, cotton manufactures could not be prosecuted in the Southern states because of the inefficiency of slave labor. Import duties tended to enhance the price of all they bought and lower the price of everything they had to sell. The price of raw cotton had risen to 29½ cents immediately after the Peace, but was now falling because of the discriminating duties levied by Parliament on American cotton. The 6 per cent ad valorem duty of 1820 was raised to \$7.25 per bale in 1831. The price dropped from 32 cents per pound in 1818 to 17½ cents in 1820 and 9½ cents in 1827. Our import duty of 3 cents a pound levied in 1791 was continued until 1846, but it had ceased to have any effect. Since our normal crop was more than sufficient to supply the domestic demand, the surplus must be exported to an unfriendly market.

The Tariff Act of 1824 was carried by the votes of the Middle and Western states. The special advocate of protection was Henry Clay of Kentucky, "the father of the American system." The argument of Randolph in behalf of the consumer and that of Webster for the shipping interest could not avail against the influence brought to bear by the eastern manufacturers and the western farmers. Increased duties were imposed on wool and woollens, hemp

Bolles,
II, Bk. III,
Ch. IV.

Taussig,
State Papers
and Speeches
on the Tariff,
252-385.

and cotton bagging, pig iron and iron manufactures. It was intended that the duties on raw materials should in each case be offset by a compensating duty on the corresponding manufacture. The 25 per cent rate on imported cottons was not increased, but the minimum valuation was raised from 25 cents to 35 cents, thus excluding higher grades of cloth. Coarse cottons were now manufactured in New England as cheaply as in the old country. Under the combined influence of cheap raw material and improved machinery, the cost of production diminished until our cotton manufacturers were able to sell at English prices. The goods from the Waltham mill that had been sold for 30 cents a yard in 1816 brought but 21 cents in 1819, 13 cents in 1826, 8½ cents in 1829, and 6½ cents in 1843. Domestic competition served to reduce prices within the protected area exactly as Hamilton and Dallas had foreseen.

Wages and
Prices,
1752-1860.

The Tariff Act of 1828. — In 1824 Parliament repealed the import duties on wool, and the price of this important raw material dropped from 1s. to 1d. a pound. The English cost of production was correspondingly reduced, and American woolen manufacturers petitioned for more effective protection. Massachusetts, convinced at last that protection of manufactures was the settled policy of the country, led this agitation. A meeting of manufacturers held in Boston voiced the demands of the woolen interest. Their raw materials, not only wool but castile soap and olive oil, were fifty per cent dearer than English prices; compensating protection must be given their finished product. The General Court passed favorable resolutions, Webster and all but one of the Bay State congressmen advocated a minimum valuation clause in the woolen schedule. A national convention was assembled at Harrisburg, Pennsylvania, which urged the protection of other industries.

Taussig,
Tariff Hist.
of the U.S.,
37-45,
68-108.

Bolles,
II, 393-409.

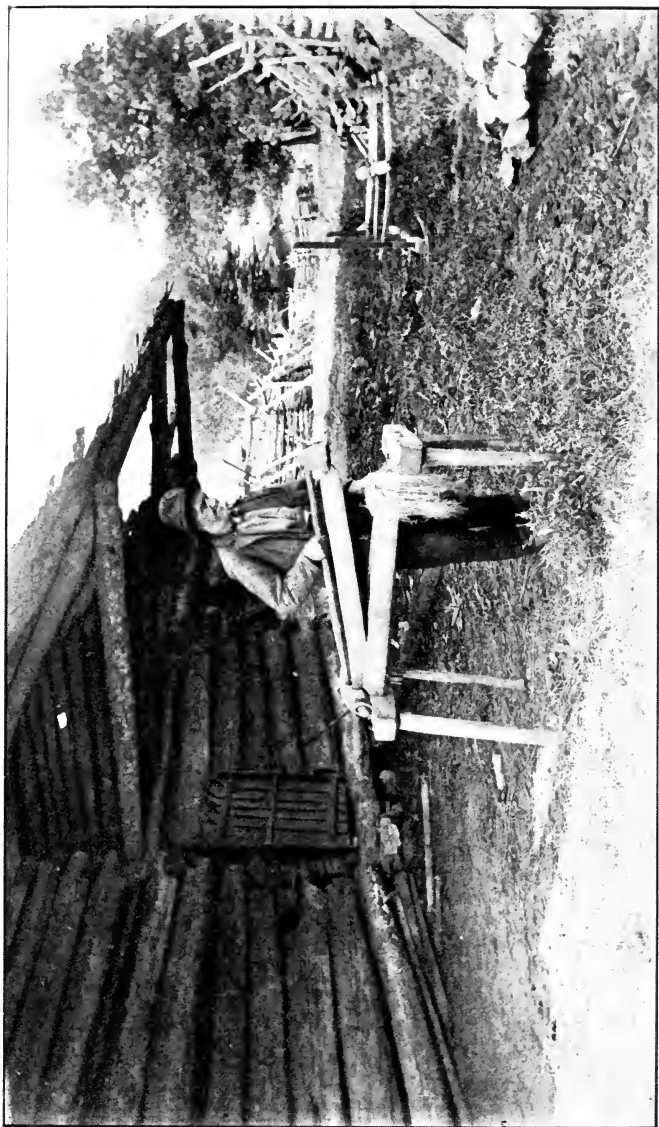
A congressional committee on manufactures, summoned business men representing the different manufacturing interests to testify as to the nature and degree of protection required. Politics played so large a part in the

tariff legislation of 1828 that the result was satisfactory to no section of the country except the Middle West. Duties on pig iron, wool, and hemp were raised to prohibitory rates. Flax was, for the first time, placed on the protected list. The compensating duties on iron manufactures, woolens, and cordage were not high enough to offset the increased cost of production. The rum distillers were outraged by the raising of the import duty on molasses to ten cents a gallon and the withholding of the drawback previously allowed. The shipbuilders were jeopardized by heavy duties on chains and anchors, sail duck, and cordage. The drawback on sail duck purchased for the use of American vessels was now disallowed. These duties involved the addition of \$6.25 per ton to the cost of every ship built in the United States. Serious as were the burdens imposed on New England industries by this "tariff of abominations," it bore even more heavily upon the South. The prohibitory duties on the coarse cottons and woolens with which the slaves were clothed, on sugar, salt, and iron manufactures, gave the planters no choice but to buy of domestic producers at prices averaging forty per cent higher than in foreign markets. The cotton crop of 1831 was nearly treble that of 1815, but the price in the American market was one half, in the English market one fourth, of that prevailing in the year after the war. The tariff was formally protested as sectional legislation and therefore unconstitutional by Georgia, South Carolina, Alabama, Virginia, and North Carolina in 1829, and an anti-protection convention was held at Augusta, Georgia. In the same year a free-trade convention was held at Philadelphia and a memorial addressed to Congress, in which the views of the anti-tariff men were ably rehearsed by Albert Gallatin.

Taussig,
State Papers
and Speeches
on the Tariff,
108-213.

Bolles,
II, Bk. III,
Ch. V.

In the **Tariff Act of 1832**, New England's interests were reconciled by reduction of the rates on low-grade wools, hemp, pig and bar iron, and molasses, and by a slight increase in duty on woolen cloth. Flax was restored to the free list, and the accustomed drawbacks on rum and



BREAKING FLAX



sailcloth were again allowed. Some attempt was made to propitiate the South by a duty of 15 per cent on leaf tobacco and by revival of the war duty of 50 cents a pound on indigo ; but protective duties failed to raise the price of either product just as the price of cotton had not been advanced by the 3 per cent impost. The duty on salt was lowered from 20 cents to 15 cents a bushel, but since the selling price, 50 cents a bushel, was still four times the cost of production, consumers were not reconciled. A states rights and free-trade convention, held at Charleston in July, declared that the protective policy meant "a steady discrimination of fifty per cent on southern and a bounty of fifty per cent on northern industry." In November following, the recently enacted tariff was declared null and void within the state of South Carolina, and steps were taken to prevent the collection of duties at the ports. The convention stated the tariff policy of South Carolina in unmistakable terms. "The whole list of protected articles should be admitted free of all duty, the revenue being derived from imposts on noncompeting articles only."

Armed conflict was averted by concessions on both sides. The Compromise Tariff of 1833 gave "a lease of nine years to protection." The obnoxious duties were to be gradually scaled down by one tenth of the excess each year, until, in 1842, a horizontal rate of twenty per cent ad valorem should be attained. Coffee, tea, spices, and linens were placed on the free list, in order that the redundant revenues might be decreased ; but none of the raw materials produced by the western farmers were so listed.

Financial Difficulties

The failure of Congress to recharter the national bank had greatly embarrassed the government in the financing of the war and deprived the country of its most reliable currency. Five million dollars in national bank notes were

Bolles,
II, Bk. III,
Ch. II.
Dewey,
144-168.

Sumner,
Hist. Am.
Currency,
61-154.

Bullock,
74-78.

Hildreth,
III, 466, 535;
IV, 25;
V, 415.

McMaster,
IV, Ch.
XXX,
XXXVI.

Am. State
Papers,
Finance,
II, 872;
III, 57-61.

withdrawn from circulation. The \$7,000,000 in specie that had been contributed by foreign stockholders was sent back to Europe. The coin remaining in the country was thereafter withheld from circulation. This was the opportunity for which the private banks had contended. Hundreds of banks immediately secured charters from the state governments and proceeded to issue notes with no adequate provision for redemption. The older and wealthier sections of the country had learned the lessons of depreciation and undertook to avert the disasters consequent on excessive issue of credit money. The banks of Massachusetts and of New York were restricted as to the proportion between issues and assets and were managed on sound business principles. In the South and West, however, where land was abundant but capital with which to develop its resources scarce, men still hankered for cheap money and plenty of it. The state authorities and the bankers sympathized with this predilection. Between 1811 and 1816 the number of state banks was trebled, and the circulation increased from \$45,000,000 to \$100,000,000. The purchasing power of the notes declined with increased issues. The notes of the Washington and Baltimore banks were 22 per cent below par, those of Philadelphia 18 per cent, those of New York 10 per cent. Finally, in 1814, all the banks outside of Massachusetts suspended specie payment. From Maine to New Orleans, and from Philadelphia to Missouri, these "wild-cat" banks declined to redeem their notes, and the government itself could not require specie in payment of taxes. Business men began to petition for a second national bank.

The Second National Bank. — The Secretary of the Treasury urged upon Congress the necessity of recourse to a national bank as the only means of enabling the government to meet its obligations, provide the country with a stable currency, and force the state banks to resume specie payment. The measure was deferred until 1816, when a bank was chartered upon substantially Hamilton's plan, but on a scale befitting the expansion of business in the twenty-

five years' interval. The capital stock was \$35,000,000, of which \$7,000,000 was to be subscribed by the government and \$28,000,000 by private parties. Three fourths of the private subscription was to be in government bonds and one fourth in specie. The bank was authorized to issue convertible notes to the full amount of its capital. The national bank currency could not be legal tender, but it was receivable at par in all payments to the United States Treasury. Five of the twenty-five directors were appointed by the President of the United States, and Congress was empowered to order an inspection of the bank management whenever it fell under suspicion. The central bank was opened at Philadelphia in January, 1817, and twenty-five branches were established in other business centers.

The successes of the first national bank were repeated only in part. The extraordinary demand for government bonds brought this paper up to par and relieved the Treasury of serious embarrassment. The national bank notes proved a welcome addition to the currency, especially in the South, where there was no specie and where the local issues were thoroughly discredited; but the task of forcing the state banks back to a specie basis proved too great for an institution organized with undue haste and financed with criminal tolerance. The National Bank was mismanaged from the start. Of the \$7,000,000 specie required in the charter, but \$2,000,000 was actually contributed. Of the \$21,000,000 bond subscriptions, but \$9,000,000 was actually made good in government bonds, the personal notes of subscribers being accepted in lieu of the stipulated payment. Undeterred by the fact that a considerable portion of its capital stock was but dubious assets, the management awarded dividends to subscribers whose stock was not paid in, loaned freely and with inadequate security to the struggling state banks, discounted heavily the business paper presented by stockholders, and issued currency in excess of the normal financial needs of the country.

Am. State
Papers,
Finance,
III, 306-391.

Mismanagement and speculation brought the institution to the verge of bankruptcy in 1818. The Baltimore branch failed for \$3,000,000. An investigation of its affairs was ordered by Congress and a vigorous reform prescribed. The original management was obliged to resign. Langdon Cheves of Charleston was elected president, and under his conservative administration the National Bank retrieved its financial standing. But reform administration could not avert the business crisis which years of speculation and wild-cat banking had engendered. The sudden contraction of credit, following upon a period of reckless financiering, jeopardized banks and business enterprises everywhere outside of New England.

Carey,
The Crisis,

The Crisis of 1819. — Not the banks only but business men of all classes had been mortgaging the future beyond warrant. Manufacturers, encouraged by the prospect of adequate protection, enlarged their plants and doubled their output. Land companies invested borrowed money in property that could not be sold at a profit. Farmers mortgaged their lands for the wherewithal to make improvements. Large sums were sunk in transportation facilities that could not pay dividends on the investment, much less make good the obligations incurred. Confidence in the resources of the country and its ultimate prosperity led men to anticipate industrial development by a generation and to risk too much upon the immediate future.

The contraction of the currency from \$110,000,000 in 1816 to \$65,000,000 in 1819, and the refusal of the National Bank to discount any but well-secured paper, called a sudden halt in this mad career of speculation. Hundreds of business enterprises were prostrated and thousands of apparently prosperous men were ruined. The closing of factories threw workmen out of employment, and the streets of Philadelphia, Baltimore, New York, Pittsburg, and many lesser manufacturing and commercial centers were thronged with destitute men and women seeking work. Prices fell, and the value of real estate shrank to one third the level of the speculative period.

Wages and
Prices,
243-247.

Failure to Recharter.—The National Bank was thenceforth managed on sound business principles, but it never recovered prestige; and the animosity of the men whose interests were involved with the private banks grew more bitter year by year. When the petition for recharter came before Congress in 1832, the proposition was vigorously opposed. The bill secured a majority in both Houses, but it was vetoed by President Jackson on the ground that the bank had “failed in the great end of establishing a sound and uniform currency.” Jackson came from the new West, where wild-cat banking had gone to unprecedented extremes, and where the ruin wrought by the restrictive measures enforced by the National Bank was keenly felt. Silver sufficient to serve as the medium of exchange came into the country through the New Orleans trade with the West Indies and Mexico, but the demand for capital with which to develop the country could only be met by credit agencies. In 1817–1818 forty banks of issue had been chartered in Kentucky. Tennessee and Ohio were not slow to adopt the same alluring expedient. The banks issued money without stint and loaned to speculators on easy terms. Prices rose, and though the silver went over the mountains to New York and Philadelphia, the Mississippi Valley seemed to be in the heyday of prosperity. Then suddenly, in 1819, the National Bank presented an accumulation of notes for redemption; the state banks, unable to meet their obligations, were forced to suspend specie payment, and the boom collapsed. To mitigate the general distress the state legislatures passed relief laws, staying proceedings against debtors. Kentucky undertook to meet the situation by establishing the Bank of the Commonwealth, authorized to issue notes on the basis of the state revenues and to loan the same to needy persons on land security. The remedy was worse than the disease. In 1822 the notes of the bank were worth fifty cents on a dollar, and its beneficiaries were ruined. The farmers lost their land and left the state by hundreds and thousands. Jackson derived from this experience a profound distrust of the

Dewey,
Ch. IX.

Sumner,
Andrew
Jackson,
Ch. VI, XI.

National Bank as a dangerous monopoly, a conviction that banks of issue should be left to state control, and the hope that all bank money might soon be superseded by specie. He believed that suppression of bank notes below the twenty-dollar denomination would necessitate the use of gold and silver and place the currency on a sound basis.

Cong. Globe,
1st Session,
1835-1836,
8.

Laughlin,
Bimetallism,
Ch. IV.

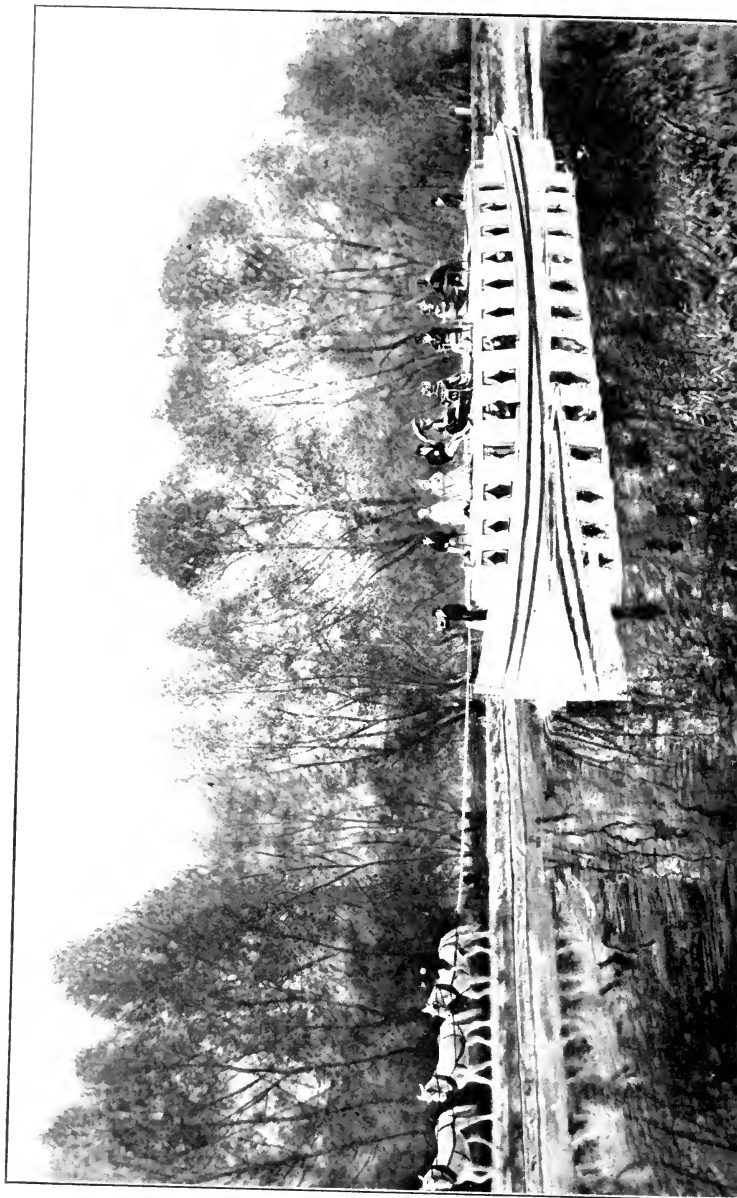
Sumner,
Hist. Am.
Currency,
103-113.

The Debasement of the Coinage.—The discovery of workable gold in the mountains of North Carolina and Georgia gave some reason to believe that the domestic production of this metal might supply the money needs of the country. The ratio of fifteen to one fixed upon in 1792 was an overvaluation of silver, and gold coins had been withdrawn from circulation. In 1834 the ratio was altered to sixteen (15.98) to one. The amount of pure gold in the eagle was reduced from 247.5 grains to 232 grains; the effect was to debase the coinage by 6.26 per cent. Benton and the other supporters of the administration policy flattered themselves that they were restoring to circulation the "dollar of the fathers," the silver dollar of 371.25 grains proposed by Hamilton; but under the new ratio silver was overvalued and disappeared from circulation. Gold began to be coined at the rate of three and four million dollars a year, but not in sufficient quantities to meet the money demand. Some form of paper currency was inevitable.

Dewey,
224-231.

The Crisis of 1837.—The war against the National Bank was carried on with unflagging zeal. The President's policy was supported not only by the champions of the state banks but by the whole debtor class. When the proposition for renewal came up again in 1834, it was defeated by a large majority. The withdrawal of the national bank notes left a vacuum which the state banks were not long in making good. In the West and South banks were chartered without let or hindrance. The number increased from three hundred and twenty-nine in 1829 to seven hundred and eighty-eight in 1837, with a proportionate increase of capital. During the same interval the volume of the currency was trebled, and bank loans were extended at an even more rapid rate.





Speculation outstripped the available capital of the country. Land jobbers borrowed freely of the banks in the expectation of speedy returns. Transportation companies were chartered by the score and undertook schemes far beyond the needs of traffic. Imports exceeded exports for the speculative period (1830-1837), by \$140,000,000. Importers ran up bills with their foreign agents or induced their creditors to take stock in American enterprises by way of payment. Under the stimulus of advancing prices, the cotton planters of the Gulf states extended their acreage, mortgaging the growing crop for the money with which to buy slaves and put up cotton gins. The Mississippi Valley, north and south, was heavily mortgaged to the eastern bankers, the seaboard states were under heavy obligations to English capitalists, but the largest creditor of all was the United States government. The so-called cash payment for public lands had been receivable in national bank notes, or in the notes of such state banks as could assure specie redemption. The distinction was one not easily sustained. Many of the "coon box" banks, organized since 1830, were loaning irredeemable currency to land speculators, who presented it at the government land offices in defiance of the law. The United States Treasury was soon glutted with this depreciated currency. In 1836 a resolution was brought forward in the Senate requiring that such payments be made in gold and silver, but it failed to pass. Under direction of President Jackson, the Secretary of the Treasury issued the famous specie circular, directing that land sales must be effected in legal tender except in case of actual settlers and bona fide residents in the state where the lands lay. From such purchasers bank bills would still be received. The effect of the specie circular was to discredit the state bank notes, and private creditors began to demand payment in coin. Hammond,
71, 72.

When, in October, 1836, financial depression overwhelmed the English business world, American obligations were called in, and the banking houses of New York and

Philadelphia became seriously embarrassed. Then the English cotton factories curtailed production, and the price of cotton fell. The New Orleans banks, accustomed to loan freely on cotton securities, were the first to break down. Most of the cotton factors failed, and the Cotton Exchange was prostrated. The crisis was extended to the northern banks by a general failure of cereal crops in 1835 and again in 1837. The farmers of the Middle and Western states had nothing to sell, and were as little able as the cotton planters to meet their obligations. Unable to realize upon their loans, the credit agencies collapsed like so many balloons. On May 10, 1837, the banks of New York City suspended, dragging down in their failure many business houses. There were two hundred and fifty bankruptcies within two months. Real estate depreciated in value \$40,000,000. Twenty thousand men were thrown out of employment. The outraged public grew dangerous, and the militia was called in to protect the terrified financiers. The Philadelphia banks went next. The officers declared that deposits were sufficient for the needs of their own constituents, but that they could not be expected to provide currency for the length of the Atlantic seaboard. The panic spread like an epidemic. Six hundred and eighteen banks failed in this fatal year. Everywhere outside of New England the collapse was complete. A contemporary thus describes the crisis in Kentucky:—

“Specie disappeared from circulation entirely, and the smaller coin was replaced by paper tickets, issued by cities, towns, and individuals, having a local currency, but worthless beyond the range of their immediate neighborhood. . . . Bankruptcies multiplied in every direction. All public improvements were suspended; many states were unable to pay the interest of their respective debts, and Kentucky was compelled to add fifty per cent to her direct tax or forfeit her integrity. In the latter part of 1841, and in the year 1842, the tempest so long suspended burst in all force over Kentucky. The dockets of her courts groaned under the enormous load of lawsuits, and the most

Diary of
Philip Hone,
I, 251-259.

Collins,
Hist.
Sketches
of Ky.,
95-97.

frightful sacrifices of property were incurred by forced sales under execution."

Thus another period of reckless speculation was brought to a sudden close. The discredited bank notes depreciated in value. Prices shrank to a hard money level. Factories and workshops, organized on a boom basis, closed in anticipation of a falling market. Thousands of operatives were discharged, and the cities were crowded with the unemployed. All classes curtailed expenditure, and the demand for goods was thus further reduced. Seeing the market overstocked, entrepreneurs were slow to take risks, and capitalists declined to loan money on any terms. The country underwent five years of financial depression.

Wages and
Prices,
269-275.

Specie payment was generally resumed in 1838, but the relief was short-lived. Seven hundred and fifty-nine banks closed their doors the following year, and the business world was not again in working order until 1842. In the interval the circulating medium had been contracted from \$149,000,000 to \$83,000,000. Imports fell off, and hence the customs revenue declined. Sales of public lands shrank from \$24,877,000 in 1836 to \$898,000 in 1843. The sharp reduction in revenue placed the United States government, which had distributed a surplus of \$37,000,000 in 1837, under necessity of declaring a deficit of \$42,900,000 for the seven years of the industrial depression. Some of the newer state governments were on the verge of bankruptcy. Mississippi and Florida repudiated their bonded indebtedness.

Internal Improvements

In the first fifty years of our national history the growth of population, both by natural increase and by immigration, had been phenomenal. The 4,000,000 inhabitants registered in the census of 1790 grew to 17,000,000 by 1840. The most rapid advances were made in the Mississippi valley. The 5000 settlers north of the Ohio in 1790 increased to 3,000,000 in the next fifty years. The

McMaster,
III, 459-495;
IV, Ch.
XXXIII.

population of the states south of the Ohio had multiplied three hundred times in the same interval. The westward movement still followed the river courses. The valleys of the Ohio, the Cumberland, and the Tennessee were first taken up. In the fourth decade of the nineteenth century, Tennessee, Kentucky, and Ohio were fully occupied by a farming population. With occasional intervals, the lands along both banks of the Mississippi River from Prairie du Chien to New Orleans had been made over to settlers. Population had crept up the Missouri River to its junction with the Kansas, up the Arkansas River to Fort Smith, and up the Red River to the Mexican boundary. The navigable streams flowing to the Gulf of Mexico—the Pearl, Tombigbee, Alabama, and Chattahoochee—furnished the sole means of getting cotton to market, and so determined the course of settlement. Lakes Erie and Ontario were a no less important transportation medium to the wheat farmers of western New York and Ohio. The Clermont's successful trip on the Hudson (1807) had revolutionized inland navigation. Steam rapidly superseded oar and sail and greatly reduced the time and cost of water transportation. A line of steamboats had been established on the Hudson in 1808 and on the Ohio in 1811. The first steamer ran from Pittsburg to New Orleans in 1812.

Needs.—When the supply of lands within reach of navigable water was exhausted, and settlers were forced back into the interior, there arose an insistent demand for transportation facilities by which farm products might be got to market and supplies forwarded to the interior settlements at reasonable cost. A New York congressman, Peter Buell Porter, proposed (1810) the appropriation of some portion of the proceeds of land sales to the building of a canal along the Mohawk to the Hudson and by way of the Allegheny River to Pittsburg, in order that the salt manufactured at Syracuse might have a cheaper outlet. He urged that the price of this necessity would be reduced to consumers by fifty per cent. Salt was then

Abbot,
Ch. II, VIII.

Annals of
Congress,
1810,
1385-1401.



selling at the works for twenty-five and thirty cents per bushel, while at Pittsburg it brought two dollars per bushel because of the cost of carriage. Porter farther advocated the extension of water communication from Syracuse to Lake Ontario via Oswego Lake, and canal connection between Lake Erie and the Ohio via the Muskingum River. The wheat that was then selling at fifty cents might bring the farmer a dollar a bushel if the transportation charges were thus reduced.

Gallatin's Plan.— Impressed by the necessity of opening up the interior, and convinced that private enterprise was inadequate to the task, Albert Gallatin, Secretary of the Treasury, submitted to Congress (1808) a comprehensive scheme of internal improvements which he proposed should be undertaken in whole or in part by the national government. The succession of peninsulas jutting out into the Atlantic from Cape Cod to Cape Hatteras interrupted coastwise navigation and offered vexing obstacles to commerce. They should be cut by a series of canals large enough for ocean vessels. The dangerous outside passage from Boston to New York could be avoided by a canal across the narrow neck of land between Cape Cod Bay and Buzzards Bay. Water communication between Delaware and Chesapeake bays would do away with a long roundabout voyage. A canal between Norfolk and Elizabeth City, Virginia, would facilitate commerce between the Chesapeake and Albemarle Sound. The last two enterprises were already undertaken by private companies, but the work should be carried to completion by national appropriation. Other local improvements, such as the canalizing of the Merrimac River, the Middlesex Canal connecting Boston with Lowell, the Schuylkill and Delaware, the Schuylkill and Susquehanna canals, were projects worthy of national aid. Canal communication should be established from the Hudson River to Lake Champlain and to Lake Ontario, and between the Mississippi and Lake Pontchartrain at New Orleans. The series of turnpikes connecting Boston with New York, Philadelphia,

Baltimore, and Washington should be improved and extended so that a great post road running from Maine to Georgia might insure transportation between the principal seaports.

Communication between the seaboard and the Western states should be furthered by the improvement of the Santee, James, Potomac, and Susquehanna rivers, and by the building of post roads to connect the headwaters of navigation on the eastward flowing streams with the corresponding western rivers—the Tennessee, Kanawha, Monongahela, and Allegheny. Water transportation in the Mississippi Valley should be bettered by canals around the Falls of the Ohio and the Niagara rivers. The pioneer roads radiating from Pittsburg to Detroit, St. Louis, and New Orleans must be taken over by the national government, since local resources were insufficient to their satisfactory completion.

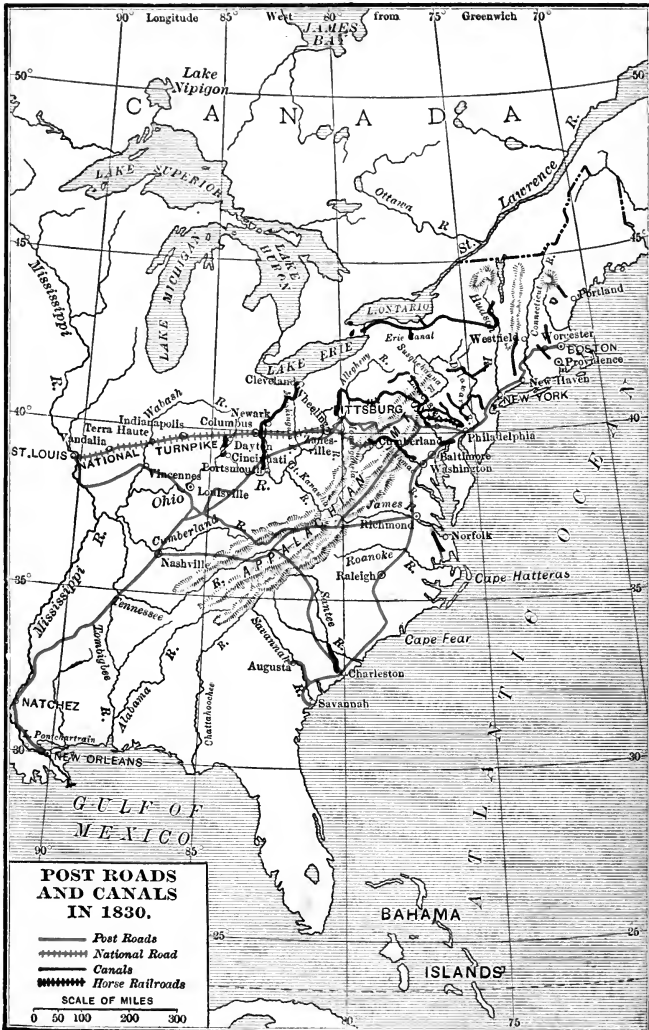
Achievements.—Gallatin's scheme of internal improvements was frustrated by preoccupation in the war with England, but the most important of his projects were later accomplished. The National Turnpike from the Potomac to the Mississippi, undertaken in 1806, was being steadily prosecuted and reached its western terminus in 1838. The road was one thousand miles in length and cost the government \$10,000,000 in the building. The income from tolls during the fifty years of its greatest usefulness amounted to little more than \$1,000,000, but the overland route to St. Louis performed an inestimable service in the development of the Northwest.

During the same period an enterprise of even greater magnitude and importance was undertaken and successfully completed under private auspices. The Erie Canal was carried (1817–1825) from Albany to Buffalo through the break in the Alleghany Range made by the Mohawk River. It followed the Mohawk to Rome, and thence, utilizing the water of numerous small lakes and streams, entered Lake Erie by the Tonawanda and Niagara rivers. The shorter route, via the Oswego to Lake Ontario, was

Tanner,
Internal
Improvements.

U.S. Census,
1880,
IV, Rept. on
Canals,
1–34.

Hulbert,
Great Am.
Canals,
II.



urged, but this plan would have diverted traffic to the St. Lawrence and Montreal. The project of a canal around Niagara Falls failed to secure support for the same reason. The Erie Canal was three hundred and sixty-two miles in length and the cost of building averaged \$20,000 per mile. The tolls of the first nine years' use amounted to \$8,500,000, and more than covered the initial expenditure. The enterprise paid dividends from the start, and the stockholders were abundantly recompensed for their venture. The secondary advantages to the state were far greater. Branch canals connected the main trunk with Ontario, Champlain, and Seneca lakes. The freightage on a ton of goods by wagon road was thirty-two dollars for a hundred miles; by canal the same distance cost one dollar per ton. The produce of the lake region poured down this channel to the sea. Wealth and population grew by leaps and bounds. The villages of Syracuse, Rochester, and Buffalo waxed thriving towns, and New York City became the leading port of the United States. From Chicago to the sea via the Mississippi and New Orleans was sixteen hundred miles, from Chicago to Montreal by way of the lakes and the St. Lawrence was the same distance, while the route to New York by the Erie Canal was but twelve hundred miles. The problem proposed by Washington was solved. The industrial and political allegiance of the upper Mississippi Valley to the Atlantic seaboard was determined by the opening of this commercial highway between the two sections.

The Erie Canal threatened to deprive Philadelphia of the major part of her western trade. To keep her hold on Pittsburg and the Ohio Valley, Pennsylvania undertook (1826) to construct a system of canals and portages from Philadelphia to Pittsburg, following the Susquehanna, Juanita, Conemaugh, Kiskiminetis, and Allegheny rivers. Connection between the Delaware and the Susquehanna was made by a horse railroad. The summit of the mountain range between Hollidaysburg and Johnstown was crossed by the Allegheny Portage Railway, a series of

Census, 1880,
IV, Rept. on
Canals,
1-3.

Wages and
Prices, ,
376-378.

Hurlbert,
Great Am.
Canals,
I, Ch. IV.

U.S. Census,
1880,
IV, Rept. on
Canals,
6-8.

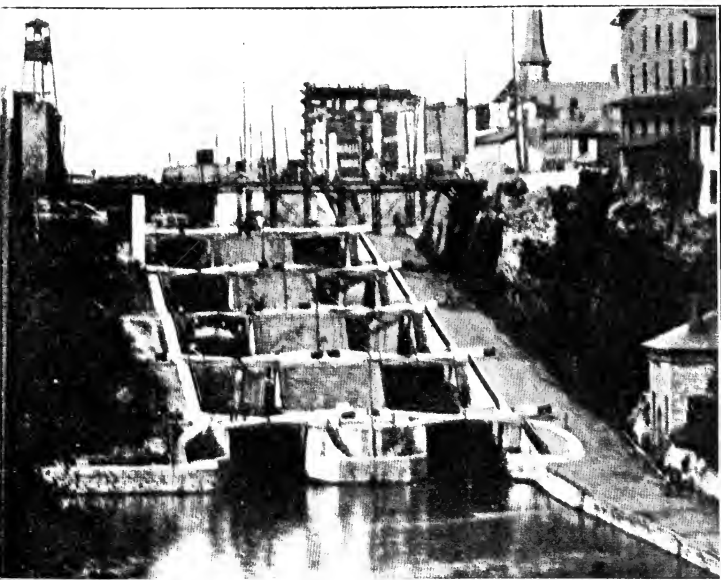
inclined planes over which the boats, placed on wheeled cars, were drawn by stationary engines. This transportation system was complete by 1834. In October of that year the keel boat, Hit and Miss, made the trip from the Lackawanna down the Susquehanna to Columbia, and up the canal to Hollidaysburg. There the owner expected to sell his boat and transport his goods by wagon road. But boat and cargo were transferred to the incline railway and successfully freighted to the western division of the canal. Thence the astonished navigator pursued the water route to Pittsburg and St. Louis. A rush of business poured along the new highway to the West, and the Portage Railway was overwhelmed with traffic so that the wagon road was in constant requisition. Notwithstanding this disadvantage, the Pennsylvania Canal was a successful rival of the Erie, and Philadelphia was able to hold a considerable portion of commerce with the interior. The total cost of this transportation system, \$10,038,133, was met by the state of Pennsylvania.

Roberts,
Anthracite
Coal In-
dustry,
Ch. IV.

A promising venture for private transportation companies was offered in eastern Pennsylvania. The anthracite coal district lay in the mountain valleys where rise the Susquehanna and Lackawanna, the Schuylkill, the Lehigh, and the Lackawaxen. Coal is so bulky a commodity that it can be transported only by water. None of the rivers, not even the Susquehanna, furnished sufficient current, except during spring floods, to float coal barges to tide water. Within five years of the day when "stone coal" was successfully used in the Philadelphia iron works, a canal was built (1828) connecting the Wyoming district with the Delaware by way of the Lackawaxen. Canals along the Lehigh, Schuylkill, and Susquehanna were built about the same time. New Jersey built the Delaware and Raritan Canal (1834-1838) at a cost of \$4,735,353. The ship canal between Chesapeake and Delaware bays was a more difficult enterprise, because it must be cut through solid rock, and neither Delaware nor Maryland would assume the task. It was begun



CHESAPEAKE AND OHIO CANAL AT HARPERS FERRY



LOCKS OF ERIE CANAL AT LOCKPORT



under private auspices, but in 1806-1807 the directors appealed to Congress for aid, arguing that such a waterway would have national importance. The appropriation recommended by Secretary Gallatin was not made until 1825, when the United States subscribed to \$300,000 stock in the company. The total cost was \$3,730,230.

A transportation system built through a populous section, or along a well-defined trade route, is assured from the start; but when a canal is carried through a thinly settled country, dividends must wait till business develops. Bondholders are likely to lose both interest and principal. Private capital was therefore shy of such investments in the new West, but the state legislatures did not hesitate to appropriate considerable sums of public money in aid of canal projects. Thus the Miami Canal was built (1829) from Cincinnati to Dayton, and the Ohio Canal provided water communication between Lake Erie and the Ohio River along the route first suggested by Washington, up the Cuyahoga and down the Tuscarawas to the Muskingum and the Scioto. Such enterprises proved too heavy a tax on the resources of a pioneer community, and the states appealed for national aid. Congress had already provided for the building of a post road through the western territory out of proceeds from the sale of public lands. This inexpensive method of meeting the cost of construction was now applied to canals. A percentage of land sales, or the lands themselves, were made over to the state authorities and by them applied to transportation projects. Under this plan the Western states undertook a vast network of internal improvements. The post roads from Columbus to Sandusky, and from Lake Michigan to the Ohio River, were built from the proceeds of land grants; and, so aided, Ohio, in coöperation with Indiana, constructed the Wabash and Erie Canal. The surplus revenue distributed in 1837 was applied by the Western states to transportation facilities. Anticipating great commercial gains, municipalities made extravagant contributions to canal stock. Speculators subscribed far beyond their

means, and bank credits were strained to the danger point in the zeal for industrial development. The financial crisis of 1837 called a sudden halt to a score of promising schemes. One hundred million dollars had been sunk in canals. The investors found that they had buried their money in locks and water works, and that no adequate return could be expected until the country had grown up to the transportation system.

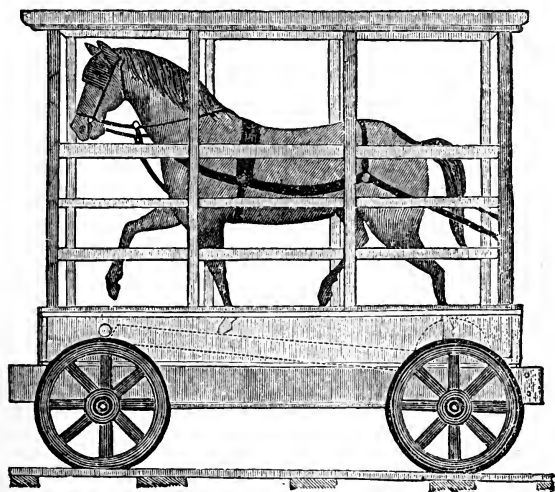
Writings of
Washington,
X, 381-384.

The Southern states undertook far less in the way of internal movements. Virginia in 1828 completed the Dismal Swamp Canal, an enterprise set on foot in Washington's day, and began a waterway along the James River through the Gap of the Blue Ridge into the Great Valley. South Carolina opened communication from the Santee River to Charleston Harbor by a canal twenty-one miles in length, and New Orleans cut a channel between Lake Pontchartrain and the Mississippi. Enterprising citizens of Kentucky undertook a canal around the Falls of the Ohio. It was only three miles in length, but wide and deep enough to admit boats of one hundred tons burthen.

Hulbert,
Great Am.
Canals,
I, Ch. II, III.

Washington's contention that Virginia should maintain direct communication with the West by way of the Potomac and the Monongahela had borne fruit in the Potomac Company, which spent \$729,380 in forty years on improving the river bed, but accomplished nothing of permanent utility. The success of the Erie Canal determined the state to charter (1825) the Chesapeake and Ohio Company, authorized to raise a capital of \$6,000,000 for the building of a canal from Georgetown to Cumberland and thence by tunnel across the range to the Youghiogeny. The canal was not completed until 1850, and its ultimate cost was \$11,000,000, of which \$7,000,000 was contributed by the state of Maryland, \$1,500,000 by the terminal cities, and \$1,000,000 by the United States government. The route beyond Harpers Ferry was very difficult, raising the average cost of construction to \$59,618 per mile. The progress of this enterprise was delayed by the appearance

of a dangerous rival, the steam railway. Baltimore gave her support to the new transportation agency, and her citizens subscribed liberally to the stock of the Baltimore and Ohio Railroad. Railway and canal were built contemporaneously along the same general route as far as Cumberland, and there the canal stopped; but the railroad easily mounted the divide and made it possible to carry freight and passengers directly to the Ohio and beyond.



HORSE RAILROAD

CHAPTER VII

THE EPOCH OF EXPANSION

Growth in Wealth and Population

Statistics.—The twenty years' interval between the crisis of 1837 and that of 1857 witnessed the most remarkable industrial development yet achieved in the United States. The wealth of the country was quadrupled in this "golden age." Riches multiplied more rapidly than population. Our per capita wealth in 1860 was more than double that of 1840, more than three times that of 1790. At the beginning of the epoch, the accumulation of property was greatest in the older and more industrial sections of the Atlantic seaboard, but the agricultural communities of the Mississippi Valley made rapid gains and in the second decade doubled the amount of wealth per inhabitant.

PER CAPITA WEALTH IN THE SEVERAL SECTIONS OF THE UNITED STATES

U.S. Census, 1890, Wealth, Debt, etc., Pt. II, 14.	YEAR	N. ATL.	S. ATL.	N. CENT.	S. CENT.	WESTERN
	1850	\$363	\$333	\$208	\$299	\$187
	1860	528	537	436	598	434

The growth of population, while not so phenomenal as during the colonial and pioneer periods of our history, was still more rapid than in any Old World country.

PER CENT OF INCREASE OF TOTAL AND URBAN POPULATION BY DECADES

DECADE	U.S.	N. ATL.	S. ATL.	N. CENT.	S. CENT.	URBAN
1790-1800	35.1	33.9	23.5		206.7	60.5
1800-1810	36.4	32.3	17.0	474.8	134.1	69.3
1810-1820	33.1	25.0	14.4	193.1	73.0	33.1
1820-1830	33.5	27.1	19.1	87.4	51.8	82.0
1830-1840	32.7	22.0	7.7	108.1	46.7	68.2
1840-1850	35.9	27.6	19.2	61.2	42.2	99.3
1850-1860	35.6	22.8	14.7	68.3	34.0	75.1

U.S. Census,
1900,
I. xxiv-xxv.

The figures indicate a general westward movement of the population from the overcrowded districts of the Atlantic coast to the new lands of the North and South Central divisions. The relatively rapid increase in the northern as compared with the southern sections is due to immigration. In 1860 there were 4,138,000 foreign born in the United States, the greater part of whom had come into the country since 1840. Famine had driven 781,000 Irish peasants to our shores in the first decade and 914,000 in the second. Political disturbances combined with industrial depressions induced 1,386,000 Germans to migrate to America during this same twenty years. By far the greater part of the European immigrants came to the Northern states. The chance to earn good wages in the factory towns of New England, in the mines and foundries of Pennsylvania, attracted hundreds of thousands of English, Welsh, and Irish thither. The native American operatives were superseded by foreigners whose standard of living did not require so high a wage. The German immigrants usually pushed on into the new West in search of government land. The Preëemption Act of 1841 finally assured to the squatter the privilege of buying the land he had brought under cultivation at the government price of \$1.25, no matter what the competitive price might be at the time the tract was offered for sale. Cash payment might thus be postponed until the settler had earned the sum required.

U.S. Census,
1900,
I. ciii.
Smith,
Emigration
and Immi-
gration,
Ch. II, III.

Sato,
422-428.

Few foreigners found their way to the Southern states. Here the opportunity for wage earning employment was forestalled by slavery, and there was little free land except in the pine barrens. Moreover the small farmer had no chance in competition with the large-scale producer. The average size of holdings was two and three times greater in the Southern states than in the Northern.

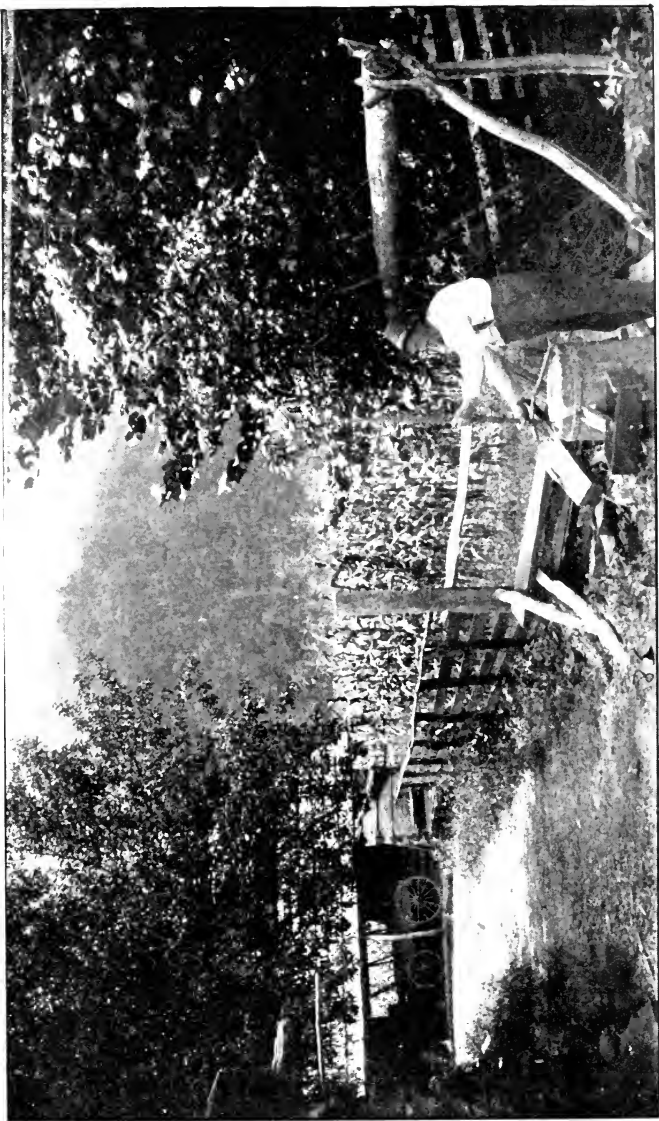
AVERAGE NUMBER OF ACRES PER FARM

Census, 1900, V, xxi.	YEAR	U.S.	N. ATL.	N. CENT.	S. ATL.	S. CENT.	WESTERN
	1850	202.6	112.6	143.3	376.4	291.0	694.9
	1860	199.2	108.1	139.7	352.8	321.3	366.9

The foreign element of the Southern states was derived from Africa, and the presence of these alien laborers debarred European immigration. There were in the Southern states on the eve of the Civil War 3,954,000 slaves and 262,000 free negroes, making together fully one third of the total population. The foreign born were then 542,000, but one twenty-fourth of the total. The proportion of slaves was declining in the border states, but increasing farther south where climate and staple crops combined to render this a highly profitable form of labor. Some three hundred and fifty thousand planters made up the slave-holding class. They represented but from five to six per cent of the white population, but they exercised a dominating influence in the politics of the South and of the nation. The non-slaveholders of the slave states were the small farmers of the hill country and the poor whites, crackers, and sand lappers of the plains. For these there was no place in the industrial order. To work for hire was to lose caste, and the opportunities for self-employed labor were few and precarious. The poor whites managed to live off the produce of their inferior lands, or earned a comfortable salary as slave-overseers.

Brown,
Lower South
in Am. Hist.,
24-49.

Olmsted,
Seaboard
Slave States,
504-522,
536-546.



HAND CORN MILL



The expansion of the South was determined by the spread of cotton culture. The denser population areas coincided with the "black belt" of rich calcareous loam that clothed the foothills of the Appalachians from Virginia south to the Gulf states and thence west across the bottom lands of the Mississippi into eastern Texas. As the plantations of the older states degenerated, new lands were claimed and cleared. The region cultivated to cotton gradually extended westward to the confines of the Louisiana Purchase. The Mexican boundary and the Missouri compromise line imposed an arbitrary limit to the domain of King Cotton, but the great staple in its onward march showed small respect for political barriers. Cotton planters from the Gulf states began carrying their slaves across the border to the valley lands along the Sabine, Brazos, and Colorado rivers long before the annexation of Texas. The Mexican treaties of 1848 added New Mexico, Arizona, and California to our national domain, but the greater part of this acquisition was mountainous and arid, not susceptible of cotton culture.

Donaldson,
120-138.

Cotton and Slavery.—The cotton plantations offered ideal conditions for slave labor. The hands could be massed under the eye of the overseer to a degree quite impracticable in the growing of corn or wheat or hay. Moreover at several stages in the development of the plant, all the laborers on the place could be utilized. In hoeing, picking, and chopping seasons, women and children and white-haired "uncles" were as efficient as able-bodied men. The cost of maintenance was low, since the slave rations, corn and pork and sweet potatoes, might be grown on the place, and the slave quarters were usually built by slave carpenters out of lumber from the freshly cleared land. The actual money expenditure need not average more than fifteen dollars per year for each man, woman, or child on the plantation. On the "dead lands" of Virginia, Maryland, and Kentucky, slave labor had ceased to be profitable, but the cotton belt furnished a ready market for the surplus negroes of the border states. Prices rose as the

Hammond,
Ch. II, III.

De Bow,
Ind. Resources of
Southern and
Western
States,
I, 150.

Olmstead,
The Cotton
Kingdom,
I, Ch. IV.

De Bow,
I, 175.

Hammond,
51.

demand increased. In 1790 the best field hand brought but \$200. In 1815 the price of an average hand was \$250. The price rose to \$500 in 1840, \$1000 in 1850, and from \$1400 to \$2000 in 1860.

Du Bois,
Suppression
of the Slave
Trade,
Ch. X, XI.

Twentieth
Rept. Am.
Anti-Slavery
Society,
13-30.

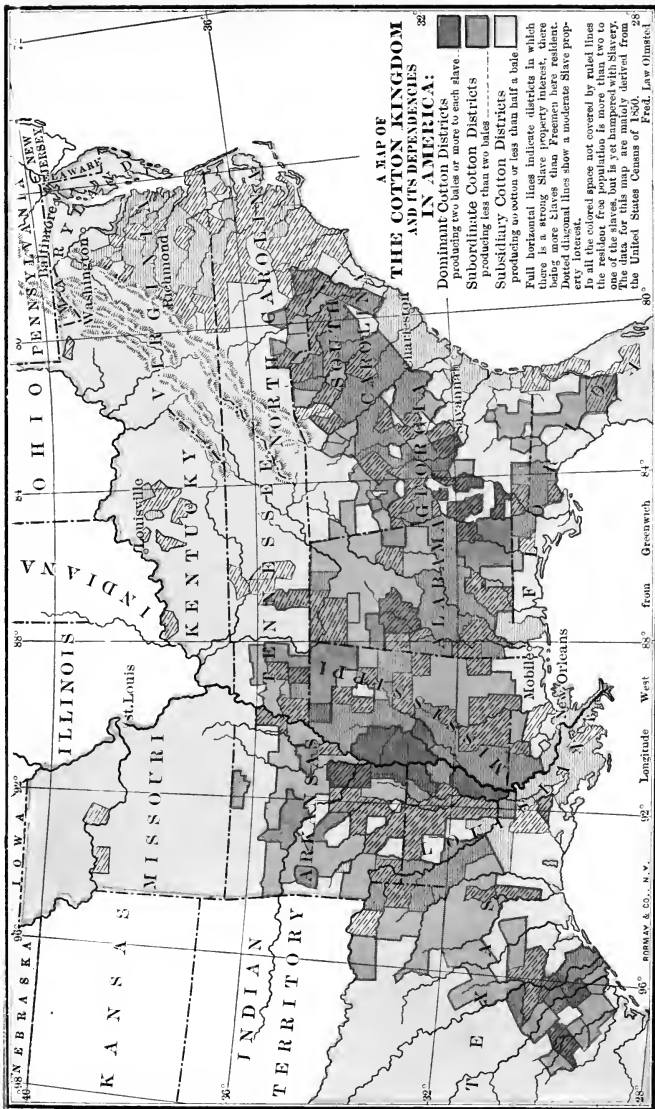
When negroes brought such prices, the temptation to import in defiance of law was too great to be withstood. Slavers, fitted out in New York and New Orleans, Boston and Portland, were engaged in carrying kidnaped Africans to Brazil, Mexico, and Cuba, whence numbers were smuggled into the United States. In the last decade before the Civil War this nefarious traffic grew bolder. Shiploads were landed in the secluded bayous of the Gulf coast and Florida, even at the port of Mobile. These fresh importations of African blood added to the numbers but degraded the quality of the slave population of the South during the very period in which the North was receiving large accessions of laborers from the most civilized races of Europe.

PROPORTION OF SLAVES TO WHITE POPULATION

De Bow,
III, 419.

U.S. Census,
1860,
Population,
vii-xvi.

STATE	1850	1860
	Per Cent	Per Cent
Delaware	3	2
Missouri	15	11
Maryland	21	17
Kentucky	28	24
Tennessee	32	33
Arkansas	37	34
Texas	40	43
North Carolina	52	52
Virginia	53	47
Georgia	71	78
Alabama	80	83
Florida	83	79
Louisiana	91	93
Mississippi	103	123
South Carolina	140	138



A MAP OF THE COTTON KINGDOM AND ITS DEPENDENCIES IN AMERICA:

Dominant Cotton Districts

producing two bales or more to each slave.

Subordinate Cotton Districts

producing less than two bales

Subsidiary Cotton Districts

producing no cotton or less than half a bale

Full horizontal lines indicate districts in which there is a strong Slave property interest, there being more Slaves than Freemen here resident. Dotted diagonal lines show a moderate Slave property interest.

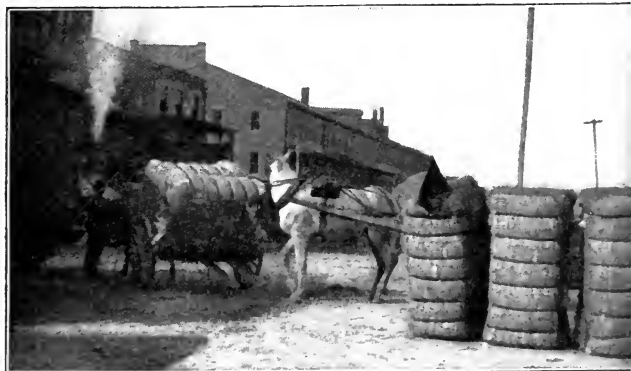
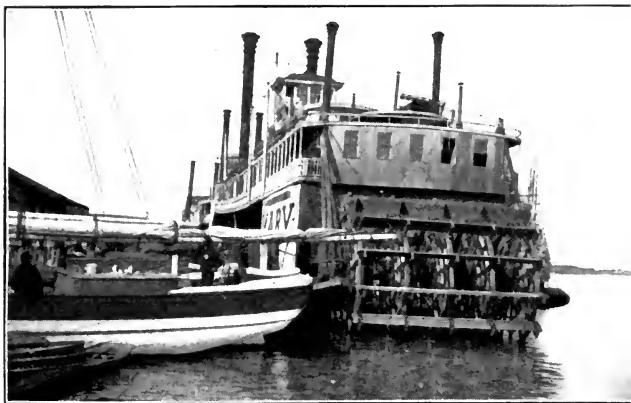
To all the colored spaces not covered by ruled lines the Freedmen are added, and the total of the two classes of the slaves, but is yet hampered with Slavery. The data for this map are mainly derived from the United States Census of 1850.

Fred. Law Olmsted



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Ingle estimates that in 1850 there were 2,500,000 slaves on the plantations of the South, of whom 350,000 were employed in growing tobacco, 125,000 rice, 150,000 sugar, 60,000 hemp. The remainder, 1,815,000 men, women, and children, were at work in the cotton fields of the "black belt." This vast army of cotton growers represents well-nigh the total increase in the slave population in the seventy years from 1790 to 1860.

Ingle,
Southern
Sidelights,
Ch. VIII.

The Growth of Cities.—The drift of population cityward became marked after 1840. The number of towns with a population of more than 8000, but 44 in 1840, was 141 in 1860. New York City grew in this twenty years from 313,000 to 806,000. The chief reasons for this increasing concentration must be sought in the growth of manufactures and commerce. Cities played but a small part in our industrial development until textile machinery and steam transportation called for the massing of labor and capital. Wherever water power determined a factory site or a lake or navigable river furnished the means of cheap transportation, entrepreneurs and wage earners gathered to profit by the business opening.

U.S. Census,
1900,
I, lxxx-
lxxxiii.

Chart,
Population
of the United
States,
p. 340.

There were four times as many towns of over eight thousand inhabitants in the North as in the South. Of cities boasting more than fifty thousand there were eleven in the North and but five in the South. Of these five, Washington, Baltimore, Louisville, and St. Louis were hardly to be reckoned as Southern from the industrial point of view, and New Orleans owed its development to peculiar commercial advantages. The prosperity of Southern cities was largely conditioned on the cotton trade. Charleston, Savannah, Hamburg, Natchez, New Orleans, were situated on harbors or navigable rivers that gave access to the plantations. Not factories and workshops, but cotton presses and warehouses filled the business quarters. The entrepreneurs were cotton factors who bought the cotton sent down river by the planters, and sold on commission to the brokers of New York and London.

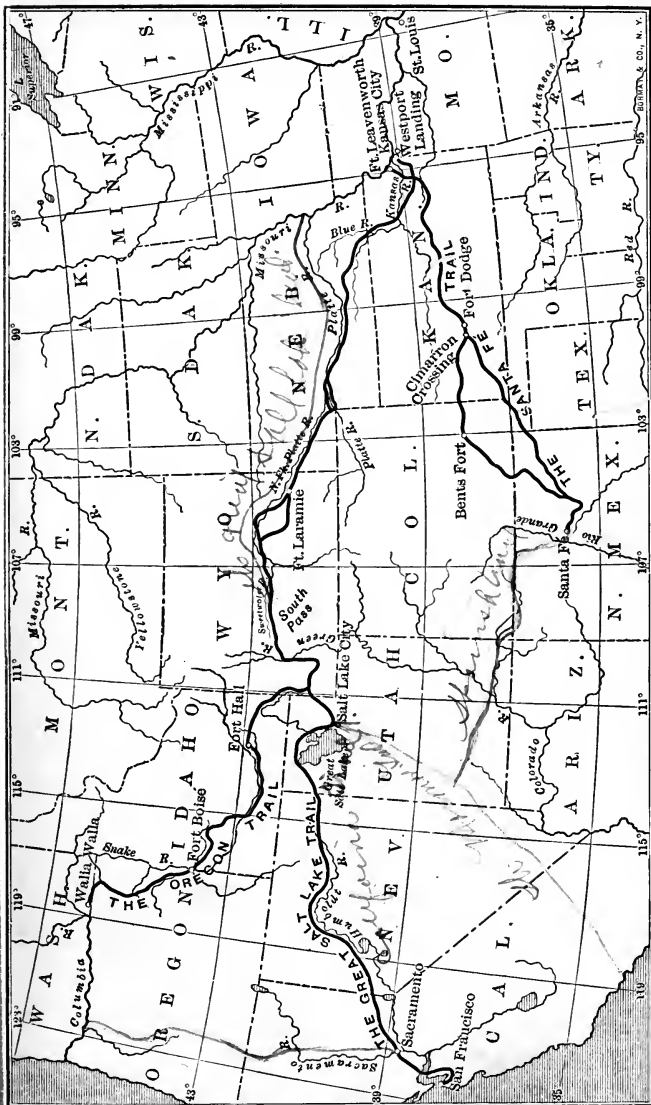
The Pacific Coast

Oregon. — From the day when Astor's trading post was abandoned to the Hudson Bay Company, the Columbia River country was coveted by American fur traders. Bonneville, Sublette, and other adventurers hunted and trapped in the debated territory and brought their spoils to St. Louis, but not till 1832 was there any attempt at settlement. In that year a party of Massachusetts men, under the leadership of Nathaniel J. Wyeth, made the arduous journey up the north branch of the Platte River and over the South Pass to the westward flowing waters of the Snake. Here they established Fort Hall in defiance of the Hudson Bay Company's claims. Four years later Marcus Whitman conducted a missionary expedition up the Snake River to Walla Walla, proving the Oregon Trail practicable for women and wagons. Thereafter the beauty and fertility of this region attracted hundreds and thousands of emigrants. In June, 1843, a caravan of two hundred wagons gathered at Westport on the Missouri, under conduct of Dr. Whitman, for the difficult overland journey. It was the first of a long procession of similar migrations. The characteristic vehicle was the "prairie schooner," a long, heavy cart with a canvas cover. The women and children with provisions and camping kit were carried in the wagons. The men rode horseback or walked alongside. As the Indians along the route became troublesome, strict guard was kept lest a foraging band capture the horses and cattle. The government sent a detachment of troops under Fremont to explore the route and protect the emigrant trains. He found a well-beaten trail and wayside camps the whole distance from Fort Hall to Walla Walla. "The edge of the wood, for several miles along the [Bear] River, was dotted with the white covers of emigrant wagons, collected in groups at different camps, where the smokes were rising lazily from the fires, around which the women were occupied in preparing the evening meal, and the

Gray,
History of
Oregon.

Wyeth,
Oregon.

Fremont,
Rept. of
Exploring
Expedition
to Oregon,
75.



TRAILS INTO THE FAR WEST

children playing in the grass; and herds of cattle grazing about in the bottom had an air of quiet security and civilized comfort, that made a rare sight for the traveler in such a remote wilderness."

Before the close of 1844, three thousand emigrants had found their way to the Columbia River region. Houses and cattle and plowed fields frightened the beaver from their accustomed haunts and threatened the interests of the fur traders. The Hudson Bay Company strove to avert this invasion by refusing to employ Americans, and by offering them various inducements to move to California. But the emigrant trains came steadily on. The British government was finally forced to surrender the land to the actual occupants. The Ashburton Treaty of 1846 secured the country north to the forty-ninth parallel as within the jurisdiction of the United States. The acquisition held rich industrial resources. The Columbia River plateau was destined to become a vast wheat granary. The Cascade Mountains contain coal and iron and gold. Puget Sound is a beautiful land-locked harbor second only in physical advantages to that of San Francisco. Its waters and those of the tributary rivers abound in salmon and other edible fish of high commercial value.

Bancroft,
Hist. of the
Pacific States,
XVIII.

California. — The discovery of a nugget of virgin gold in an irrigating ditch on a Sacramento River cattle ranch (January 19, 1848) was the origin of a westward movement quite different in character from any antecedent migration. A horde of adventurers, young men for the most part, swarmed across the Cordilleran Range to the E. Dorado on the Pacific coast. Gold to the amount of \$5,000,000 was taken from the placers of the Sacramento Valley in 1848 by the five thousand men who were first on the ground. In the next year fifty thousand people made their way to California. Some of the "forty-niners" undertook the nineteen thousand mile voyage round the Horn, others sailed to Panama and, crossing the pestilential isthmus, took ship for San Francisco; but the most impatient and foolhardy made their way along the

Stillman,
Seeking the
Golden
Fleece.

Salt Lake Trail from Fort Leavenworth up the Platte River and over South Pass to the Great American Desert. From Salt Lake the trail followed the Humboldt and Truckee rivers to the gold diggings. Prospectors scattered over the hills and valleys of northwestern California from Tuolumne to Modoc counties searching the river wash for the golden gravel that converted many a poor wretch into a millionaire. By official estimate \$40,000,000 worth of gold was taken out in 1849 and \$50,000,000 in 1850. It is probable that one fourth of the findings were not reported to the government. The maximum production was reached in 1853, when the value of the gold taken out amounted to \$65,000,000. The total output of the first twelve years exceeded \$600,000,000.

Taylor,
El Dorado.

Utah. — At Salt Lake, on the edge of the Great Basin, the gold seekers came upon a Mormon settlement. The saints had migrated from Iowa in the spring of 1847, making their way up the Platte River by what came to be known as the Mormon Trail, to Fort Laramie, and so over the table-land to their arid destination. The sage brush plains proved highly fertile under irrigation. The settlers put up flour mills and saw mills, woolen and nail factories, and were soon able to supply themselves with all the necessities of life. Few joined in the rush to California. They found a surer means of making money in providing food and transportation at exorbitant prices to the desperate gold seekers. In the winter of 1848-1849 there were five thousand people in Utah.

Linn,
Story of the
Mormons,
378-409.

Brough,
Irrigation in
Utah,
Ch. I, II.

The population of the Rocky Mountain and Pacific coast communities amounted in 1860 to more than five hundred thousand. The character of the settlers as well as the nature of the climate and the economic resources, rendered the whole of this territory unfit for slavery. The new West offered, on the contrary, many and hopeful openings for free and self-employed labor. Not even among the Mexican population of New Mexico and Arizona did slavery flourish. Agriculture could be carried on only by means of irrigation, and this required a degree of intelli-

U.S. Census,
1900,
VI, 801-804.

gence and a capacity for coöperation that can be expected only in a free farmer.

POPULATION OF THE GORDILLERAN TERRITORY

U.S. Census, 1900, I, xxii, xxiii.	YEAR	ORE.	CAL.	UTAH	COL.	NEV.	WASH.	TOTAL
	1850	13,294	92,597	11,380				117,271
	1860	52,465	379,994	40,273	34,277	6,857	11,594	525,460

Influence of Revenue Tariffs

Bolles,
II, Bk. III,
Ch. VI, VII.

Bishop,
II, 419-474.

Taussig,
Tariff Hist.
of the U.S.,
109-154.

Dewey,
237-239, 249-
252, 257-259,
262-265.

Rabbeno,
184-199.

Thompson,
Hist. of
Protective
Tariff Laws,
Ch. XXXIX,
XL.

Executive
Documents,
29th Cong.,
1st Session,
II, No. 6.

The golden age of American industry was coincident with a period of low import duties. The gradual reduction of the tariff provided for in the compromise of 1833 had been consistently carried out, and the horizontal scale of twenty per cent was reached in 1842. This minimum tariff was in operation but two months (July and August). Then the advocates of protection secured a brief lease of power. With a view to making political capital out of benefits conferred, the Whig majority in Congress enacted a law imposing heavy duties on salt, glass, iron, cotton, woolen, and silk manufactures, industries represented in New England and the Middle states. The West was indifferent to the measure, the South was distinctly hostile. The unqualified Democratic victory of 1844 gave the opponents of protection their opportunity. In his annual report of December 1845, R. J. Walker, Secretary of the Treasury, demonstrated that the prevailing customs duties imposed a tax of \$81,000,000 upon consumers in the way of enhanced prices, while they brought to the government a revenue of only \$27,000,000. He proposed that tariff legislation should be determined by financial considerations solely, and that the import duties should be laid in accordance with sound principles of taxation. Rates should be fixed at the point that would insure the maximum return over and above the cost of collection. Protection should

be quite incidental. High duties might suitably be imposed on luxuries, but the raw materials of manufacture and the necessities of life should be admitted under low duties or placed on the free list. The argument that protection to manufactures insured high wages to labor, Walker declared to be delusive. Wages had not risen under the Whig tariff, but the cost of living had certainly been advanced. The "American system" taxed twenty million people for the benefit of four hundred thousand operatives, whose opportunity for employment was dearly bought, and of ten thousand manufacturers, who were reaping a higher rate of profit than any other class in the community.

Taussig,
State Papers
and
Speeches on
the Tariff,
214-251.

Wages and
Prices,
424-427.

Walker believed that the reduction of our import duties on manufactures would lead to the repeal of the English Corn Laws and the opening of British ports to our agricultural products. The reciprocal trade thus engendered would greatly benefit our farmers and planters, whose crops of wheat and cotton had outgrown the capacity of the home market, and our merchants who must profit from the augmentation of commerce. In the debate upon the Democratic tariff bill, the antagonism between the manufacturing and agricultural sections of the country became evident. Reduction of the protective duties was opposed by New England and the Middle states, but favored by the farmers and planters of the West and South.

In the **Walker Tariff** (July, 1846) imports were classed under four principal categories. In Schedule A were listed injurious luxuries, such as absinthe, brandy, and all other liquors and spirits. On these a prohibitory duty of 100 per cent was levied. Schedule B comprised other less obnoxious luxuries, such as nuts, spices, sweetmeats, cigars, snuff, and manufactured tobacco. Such imports paid a high revenue duty of 40 per cent. Schedule C covered with a 30 per cent import duty the industries that might reasonably demand protection, such as pig iron and iron manufactures, wool and manufactures of wool, ready-made clothing of all descriptions, manufactures of leather, paper, wood, glass,

molasses and sugar. In Schedule D were classed the industries now fully established, such as low grade cottons, woolens, and silks. In general the raw materials of manufacture paid but 15 per cent. The 3 per cent duty on raw cotton was finally abandoned as "inoperative and delusive." There was a long free list. Salt for the first time in our national history was admitted duty free. Tea and coffee, the luxuries of the poor, were left untaxed. The interests of the farmers were looked after in a tax of 30 per cent on hemp and leaf tobacco, on cheese, vegetables, etc. The interests of the cotton planters, more than half of whose product was then being exported to England, were furthered by a drawback of half the duty on cotton bagging when used for wrapping bales sent to the foreign market.

The repeal of British duties on food stuffs, anticipated in Walker's report, was already being debated by Parliament. An act of June 26, 1846, reduced the tax on wheat, barley, oats, rye, beans, and Indian corn to a mere nominal rate. The year following the duties were suspended, and they were soon abrogated altogether. The free list was rapidly extended, until by 1849 all our agricultural products, except tobacco, were admitted to England free of duty, even when carried in American bottoms. Our exports of corn rose immediately from 840,000 bushels in 1845 to 17,273,000 in 1847; our exports of wheat flour from 1,195,000 barrels in 1845 to 4,383,000 in 1847. Prices rose with the famine demand, and the American farmer reaped a rich harvest from the necessities of the Irish peasant. England's population had outgrown the normal capacity of her fields, and American farmers were assured a permanent market. The total value of the cereals exported in 1849 amounted to \$22,531,465, and this phenomenal showing was maintained in later years. The balance of trade turned in our favor, since Great Britain was obliged to pay for these extraordinary receipts in gold and silver.

In his report of December, 1846, the Secretary of the Treasury commented thus on the effect of six months' opera-

Levi,
Hist. of Brit.
Commerce,
Pt. IV,
Ch. IV.

9 and 10
Victoria,
C. 22.

De Bow,
I, 96.

U.S. Census,
1860,
Agriculture,
cxl.

tion of the Democratic Tariff. "We are beginning to realize the benefits of the new tariff. . . . By free interchange of commodities the foreign market is opened to our agricultural products, our tonnage and commerce are rapidly augmenting, our exports enlarged, and the price enhanced; exchanges are in our favor, and specie is flowing within our limits. The country was never more prosperous and we have never enjoyed such large and profitable markets for all our products. This is not the result of an inflated currency but is an actual increase of wealth and business. While agriculture, commerce, and navigation, released from onerous taxes and restrictions, are thus improved and invigorated, manufactures are not depressed. The large profits of manufacturers may be in some cases somewhat diminished, but that branch of industry, now reposing more on its own skill and resources, is still prosperous and progressive. New manufactories are being erected throughout the country, and still yield a greater profit in most cases than capital invested in other pursuits."

Cong. Globe,
1846-1847,
Appendix,
12.

The Tariff of 1857. — The low tariff held for ten years, and, financially at least, it was a marked success. In 1854-1856 the revenues from customs exceeded the normal expenditure of the government. Secretary Walker advised a general reduction of import duties in order to "reduce the surplus revenue and the constant influx of specie into the vaults of the treasury." The Tariff Act passed in 1857 cut down the rates on Schedules A and B to 30 per cent. Duties on the protected products represented in Schedule C were reduced to 24 per cent. The 25 per cent rate of Schedule D was reduced to 19 per cent. Manufacturers received adequate compensation in the reduction of the tax on their imported raw materials. For example, the duties on pig and bar iron and hemp were reduced from 30 to 24 per cent, that on wool from 30 to 8 per cent; flax and dyestuffs were admitted free. This abatement of protection to their special interests called out strong opposition in the Middle and Western states, but the Southern vote was given for the reduced rates.

Cong. Globe,
1856-1857,
Appendix,
328-358.

The volume of commerce doubled and tripled during this "free trade" epoch. Imports increased from \$96,000,000 in 1842 to \$353,616,000 in 1860. The excess of imports over exports for the whole period of twenty-one years amounted to \$360,000,000.

The Infant Industries Come of Age. — Government support once withdrawn, the protected industries proved vigorous enough to stand alone. The growth of population meant an increased demand sufficient to absorb both the domestic product and the imported goods. Ocean freights were in most cases a sufficient handicap on the foreign manufacturer.

The iron industry flourished, for, though importations of English rolled iron increased, American ironmasters held their full share of the market. Competition forced them to abandon the old method of hammering out bar iron in a forge fired by charcoal, and to adopt the cheaper fuel, coal, and the less expensive process of puddling and rolling. The juxtaposition of iron and bituminous coal in the western Alleghanies, coupled with improved transportation facilities, gave the Pennsylvania iron manufacturers advantages fully equivalent to those of their English rivals. As the domestic price fell (from \$85 per ton in 1844 to \$58 in 1860), freights became an increasingly effective deterrent on importations.

Cotton manufactures were also developing during this period of low duties. Inventions multiplied until American machinery was fully equal to the English. American labor was more economical because, though better paid, it was more efficient. Raw cotton was cheaper in the United States market by the difference in cost of transportation, amounting to two cents a pound. The market for cheap cotton goods was developing, not only in North and South America, but in the Orient. Our exports of cotton goods rose from \$3,000,000 per year in 1838 to \$11,000,000 in 1860. The number of spindles operated in the United States doubled, and our consumption of raw cotton trebled in the same twenty years. New England

Taussig,
Tariff Hist.
of the U.S.,
128-135.

Swank,
Ch. XLI,
XLII.

Bishop,
II, 489-492.

Census,
1860,
Manufac-
tures,
clxv-clxvi.

Taussig,
Tariff Hist.
of the U.S.,
135-142.

Bishop,
II, 494-496.

Census,
1860,
Manufac-
tures,
x-xx.

was still the center of this important industry, his advantages in the way of water power and skilled labor enabling the Yankee entrepreneur to produce the goods at low cost.

GROWTH OF COTTON MANUFACTURE IN THE UNITED STATES

YEAR	NO. OF SPINDLES	BALES OF COTTON CONSUMED	EMPLOYEES
1840	2,284,631	295,000	72,119
1860	5,235,727	978,000	122,028

The woolen manufacturers labored under a special disadvantage in that domestic wool was inadequate both in quantity and quality. The retention of the duty on the finer grades of raw wool rendered the imported fiber so expensive that the manufacturers were confined to the making of cheap satinets, broadcloths, flannels, and blankets. The only notable gains of this period were due to the invention of power looms for the weaving of knit goods and the manufacture of ingrain and Brussels carpets.

Notable Inventions. — Under the stimulus of the patent law, improved machinery was being introduced into every branch of manufacture. From 1840 to 1850 patents were granted at the rate of 646 per year; the rate for the succeeding decade was 2225 per year. Most notable among the inventions affecting manufactures was the sewing machine. Elias Howe brought out his invention in 1846. The machine proved an immediate success, and Howe made a fortune from its sale. Improved patents were soon put upon the market, but the rival manufacturers entered into an agreement (1856) for the merging of their rights and the division of royalties. I. M. Singer introduced the method of sale by installment, and by this means the labor-saving device was brought within reach of the poor. The output in 1853 was 2266 machines, six

Taussig,
Tariff Hist.
of the U.S.,
143-152.

Bishop,
II, 496-497.

Census,
1860,
Manufactures,
xxv-xxxiv,
li-lix.

Bishop,
II, 474-482.

Byrn,
Progress of
Invention,
Ch. XIX.

U.S. Census, 1860, Manufactures, lix-lxvi. years later it was 42,539. The advantages accruing to the large workshop by the division of labor and superintendence of details, speedily converted the manufacture of ready-made clothing from a domestic to a factory industry.

U.S. Census, 1900, IX, 259-310. The capital invested in this business doubled between 1850 and 1860, and the value of the output increased from \$48,000,000 to \$80,000,000. The number of employees increased but 19 per cent in the interval. The saving in wages reduced the cost of the factory product to one fourth that of the hand-stitched garment. The duty on ready-made clothing was omitted in the tariffs of 1846 and 1857.

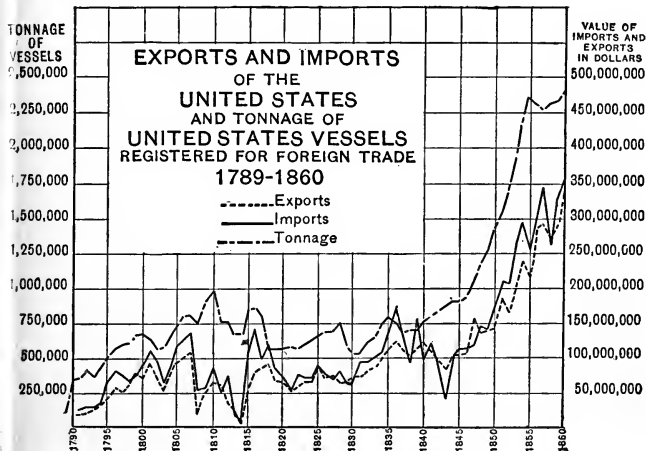
U.S. Census, 1860, Manufactures, lxvii-lxxii. The most important application of the sewing-machine was made in the manufacture of shoes. The invention of a needle that could carry a wax thread through leather, converted the making of boots and shoes into a factory industry in the last decade before the Civil War. In 1861 McKay invented a machine for sewing soles to uppers more cheaply than pegs could be driven, even by machinery. This automatic needle enabled a skilled workman to sew the soles on to nine hundred pairs of shoes in a ten hour day. The labor cost of the machine-made shoe was reduced to one eleventh of that of the hand-sewn article. So preëminent were our advantages in this branch of manufacture, that the import duty might now have been abolished but for the offsetting duty on leather.

Development of Commerce.—Our free trade epoch witnessed a doubling and trebling in the volume of foreign trade, and a corresponding increase in our merchant marine. After a long period of depression, the shipbuilding industry recovered the prestige of former days. The tonnage figures of 1810 were finally surpassed in 1846. During the next fifteen years there was a steady increase in our ocean tonnage, which amounted to two million five hundred thousand tons in 1861. These were prosperous times for American shipyards. We had oak and hard pine in plenty, and the best shipwrights in the world. Skilled artisans from all countries flocked to Bath, Salem, East Boston, New London, New York, Philadelphia,

Marvin,
Ch. XI, XII.

Bates,
164-170.

Wilmington, and Baltimore, to avail themselves of the high wages paid by the leading builders. The construction of a schooner of five hundred tons cost \$37,500 in the United States and \$42,000 in England. With this advantage we were able to build all our own ships and to sell many abroad. The British embargo on American built ships was removed in 1849 and this important market was



opened to us. Spite of the discriminations against American-built vessels imposed in Lloyd's insurance rates, many ships were "sold foreign" at a fair profit.

All along the New England coast, wherever cove or river mouth gave convenient launching room, smaller vessels were building,—schooners for local trade and smacks for the fishing fleet. Many a Yankee skipper built his own vessel, manned it with friends and neighbors, and made independent commercial ventures up and down the coast. Captain and crew were bred to the sea and excelled in skill and daring. American sailors were noted in all ports for self-reliance and resourcefulness. Good wages and the standard food and quarters prescribed by Federal law attracted foreign seamen to our service.

The great majority of our ships were fast sailing vessels, the famous Yankee clippers, the swiftest and stanchest craft afloat. Half a dozen packet lines made regular monthly trips from New York, Boston, or Philadelphia to Liverpool and Havre. The vessels were built with a view to speed, and such was the seamanship of officers and men that the eastward trip was usually made in from eighteen to twenty days, the westward in from twenty-one to twenty-six days. The repeal of the British Navigation Acts admitted American vessels to traffic between Great Britain and her colonies, and our merchants for the first time secured their full share of the carrying trade between Great Britain and European lands. The reciprocity treaty with England became at last of equal advantage to both parties.

The rush to California brought fast sailing vessels into requisition for the voyage round the Horn. Vessels of the largest and best models were built for the Pacific trade. Commerce between Atlantic ports and San Diego and San Francisco, by this route or by the Isthmus of Panama, was interpreted to be coastwise trade and was therefore restricted to our own vessels. Extravagant prices were charged for transportation of passengers and freight, and shipmasters reaped golden profits. Cramp on the Delaware, Webb on East River, and McKay on the Mystic vied with one another in producing mammoth vessels for this trade. The California boom was hardly spent when quite as unexpected an opening was furnished by the Crimean War. The combined British and French fleets were unequal to the forwarding of troops and supplies, and American vessels were requisitioned for the transport service.

Subsidy Policy. — Our very preëminence in the building and navigating of sailing vessels proved our ultimate undoing. The attention of the shipping interest was so concentrated on our fast clippers, that the greater possibilities of steam were ignored. The Savannah, the first steamer to cross the Atlantic (1819), had been built on

this side the water, but that was regarded a mere deed of bravado. The venture was not followed up. In England, on the contrary, the scarcity of timber forced the adaptation of the steamboat to ocean commerce. Both coal and iron were then cheaper in England than in the United States, and the English government stood ready to subsidize promising ventures in this new field. The Cunard Company (1839) established a line of transatlantic steamers and was accorded \$425,000, and later \$850,000, per year for carrying the mails between Liverpool, Halifax, and Boston. The subsidy far exceeded the cost of the mail service, and was, in fact, paid as a bonus on a hazardous investment. In 1840 the Peninsular and Oriental Line to India and China, and the Pacific Steam Navigation Company running steamers along the west coast of South America, were subsidized in like manner. These English lines offered swifter and more regular service than sailing vessels could ever attain, and, being guaranteed against losses by government subsidy, bade fair to drive American clippers out of the transatlantic, Asiatic, and South American trade.

In 1845 our government came tardily to the aid of steam navigation. The Ocean Steamship Line from New York to Havre and Bremen was subsidized at the rate of \$200,000 per year. The Collins Line from New York to Liverpool was offered \$380,000, but the stipend was raised to \$850,000 because the vessels built exceeded the contract stipulations. The Collins steamers, the largest, swiftest, and most comfortable ships of their day, competed successfully with the Cunard Line for passengers and freight. The reduction of freight rates from £7 10s to £4 per ton seemed an immediate justification of the subsidy policy, and Congress bestowed farther favors. The Pacific Mail, subsidized to the amount of \$250,000 per year, sent the first steamer round the Horn in October, 1848, and came in for a full share of the profits of the California trade. The Law Line to Colon, and the Aspinwall from Panama to San Francisco, were also subsidized.

Cong. Globe,

1852,

1146-1149,

1162-1167,

1199-1205,

1227-1231,

1241-1246,

1260-1267,

1269-1270,

1288-1291,

1302-1311,

1325-1327,

1717-1725.

Appendix,

604-615, 701-

704, 779-787,

802-806, 813-

816, 820-826.

The extraordinary prosperity of our shipping interest was viewed with concern by the Southern and Western states. All the subsidized steamers, with the exception of a single line from Charleston to Havana, sailed from northern ports, and the ships were built on the North Atlantic coast. It was thought unjust that the general government should expend more than one and a half million dollars a year in support of an industry whose profits were accruing to a single section of the country. The Southern planters protested that their cotton could be as cheaply and safely carried in British vessels. Subsidies had been advocated by Butler King of Georgia in the belief that southern shipping would revive under such auspices. When these hopes proved fallacious, Southern statesmen vigorously opposed the steamship bonus. In 1856 the subsidy to the Collins Line was reduced from \$850,000 to \$385,000. The sudden reduction in revenue, coming immediately after the loss of two great steamers, wrecked the enterprise. The company had spent all its income on improvements and held no reserve funds. The surviving vessels were sold for debt and speedily transferred to the English flag. Undeterred by this melancholy example, Congress proceeded in 1858 to limit all subsidies to the amount of sea and land postage on the mails actually carried.

The Coastwise Trade.—With the development of the interior, domestic commerce increased in volume until it had become a far more important factor in the nation's prosperity than the transatlantic. The vessels engaged in the coastwise trade multiplied year by year. The tonnage so enrolled was but 516,086 in 1831. By 1840 the million mark was reached, and this figure was doubled and trebled in the next twenty years. Steamships were introduced in the coasting service in 1823, when a steamer plied regularly between Boston and the Kennebec River. A line was soon after established between New York and the Southern ports. Sharp competition between steam and sail ensued. The average speed of the coast steamers, ten miles an

Cong. Globe,
1847-1848.
Appendix,
936-938.

Marvin,
363-375.

hour, might easily be surpassed by a schooner with a favorable wind. Fast sailing barkentines and brigantines of enlarged hold capacity were devised to meet this dangerous rivalry. Having no coal bills to pay, the sailing vessels could offer lower rates and so manage to hold their own in the bulky freight traffic. They continued to carry the major part of the coal, wood, and iron manufactures shipped from northern ports in exchange for the cotton, sugar, and hard timber of the South, but passenger traffic was rapidly transferred to the safer and more regular steamship lines.

The coasting trade offered large scope for an enterprising shipmaster. The voyage from Calais, Maine, to Point Isabel, Texas, was twenty-six hundred miles, as long as that from Boston to Liverpool, but more profitable because of the many intermediate ports. The hazards of the passage round Cape Hatteras were reduced by the building of the Chesapeake and Albemarle Canal (1855-1860). The voyage from Boston to Puget Sound was fifteen thousand miles, but along this route, too, stops were made at Rio Janeiro, Buenos Aires, Valparaiso, Callao, San Diego, San Pedro, San Francisco, and Portland, with a profitable interchange of cargo.

Inland Navigation.—Commerce through the Great Lakes was marvelously increased since the days when the open boat of the fur trader made its perilous way from Buffalo to Detroit and Michilimackinac. No sooner had the Erie Canal been finished, than a brisk trade developed along the American shores. Scores of brigs and schooners were built at Buffalo and Erie to transport the wheat and lumber products of the pioneer settlements to Eastern markets. Nine tenths of this traffic was between United States ports and thus was reserved to our own vessels. A little steamer, Walk-in-the-Water, was launched at Buffalo in 1819. She was the first of a mighty fleet. Lake steamers were built stanch and broad to breast the winds and waves of these inland seas. The side wheel, still customary in ocean craft, was found impracticable where

Marvin,
395-402.

Lardner,
Railway
Economy,
311-325.

canals and narrow channels were to be traversed, and Ericsson's screw propeller gradually superseded the original model. In 1862 the sailing tonnage of the Lake fleet was 254,799 and the steam tonnage 125,620. Nearly half of this last was propeller built.

Our wonderful waterway to the heart of the continent was extended and improved by numerous canals. The Canadian government built the Welland Canal in 1833, and the United States government built the locks at Sault Ste. Marie in 1855. The dangerous passage through Porte des Morts was avoided by a canal from Lake Michigan to Sturgeon Bay. Connection between Chicago and the Mississippi was opened via the Des Plaines and the Illinois rivers in 1848. The old trader's route between Green Bay and Prairie du Chien was made practicable for lake vessels by a canal across the portage between the Fox and Wisconsin rivers. By this means, a boat loaded at Buffalo might reach the Falls of St. Anthony, the Yellowstone, or New Orleans without shifting her cargo. A steamer of moderate bulk and draught might, indeed, make the trip from Baltimore to New Orleans by inland waters, never feeling the ocean swell except for a few hours in New York harbor. The advantages for domestic commerce of safe and cheap transportation throughout this enormous circuit can hardly be overestimated.

The New Transportation Agent

The crisis of 1837 checked the mania for canal building none too soon. Much of the capital so invested was thrown away, for the canal was destined to be superseded by the railroad. Canal traffic was safe and cheap, but slow and liable to be interrupted by slack water, floods, or frost. The Erie Canal, for example, freezes over in winter, and navigation is stopped for from four to five months in the year. A railroad can be built through mountainous country at one third the cost of a canal, and over heights to

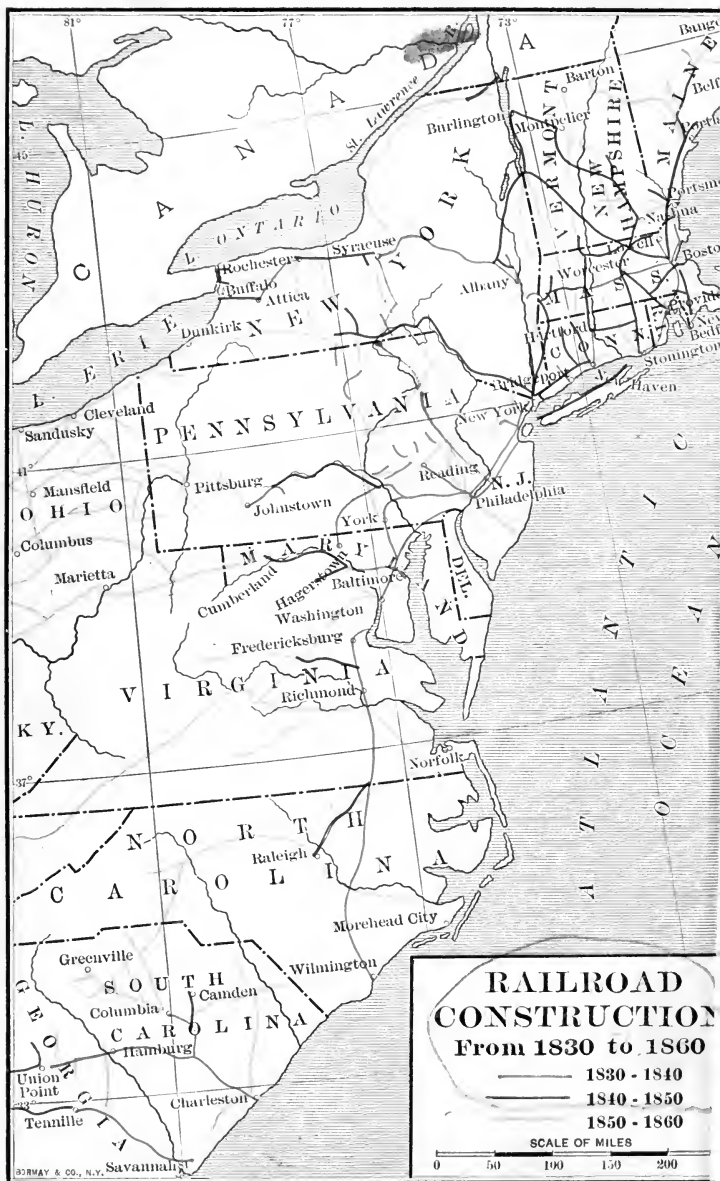
Chart,
Post Roads
and Canals,
p. 206.

De Bow,
II, 458.

Lardner,
325.

Lardner,
Ch. I.





which water cannot be conducted. A car run on wheels fitted to the iron track encounters less friction than a wagon on a turnpike, less resistance than a boat in water.

The first railroads were built to supplement the canal system, as the ship railway from Hollidaysburg to Johnstown, the Mauch Chunk extension of the Lehigh Canal, the Delaware and Hudson Canal Company's tramway from Carbondale to Honesdale. Cars loaded with coal and stone were drawn over these iron tracks by stationary engines, horse power, and even sails. The first locomotive was imported from England by the Delaware and Hudson Company in 1829, but it proved impracticable because the track had not been built for so heavy a weight.

After diverse experiments, the Baltimore and Ohio management chose steam as the most practicable motor (1831). Peter Cooper's engine, the "Tom Thumb," made the trial trip over the thirteen miles of track between Baltimore and Ellicott's Mills in one hour. In the same autumn, several trips were made over the South Carolina Railroad from Charleston to Hamburg. The "Best Friend" ran from sixteen to twenty-one miles an hour with five loaded cars attached; without the cars, the speed attained was from thirty to thirty-five miles an hour. The following year the "De Witt Clinton" made a trial trip on the railroad then building up the Mohawk Valley. The seventeen miles from Albany to Schenectady were covered in an hour. On the occasion of the formal opening of this line, the legislators then assembled at Albany were conveyed to Schenectady and there dined in state. One of the toasts voiced a daring prophecy. "The Buffalo Railroad, — May we soon breakfast in Utica, dine in Rochester, and sup with our friends on Lake Erie!" The journey from Albany to Buffalo by the swiftest packet boat required at that time three or four days.

Speed is an all-important consideration in the transportation of passengers and perishable freight. Therefore am-

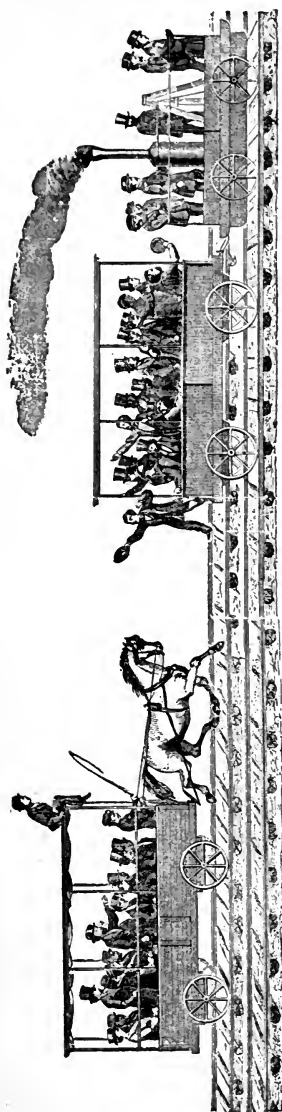
Hadley,
Railroad
Transportation,
Ch. II.

Adams,
Railroads,
I-79.

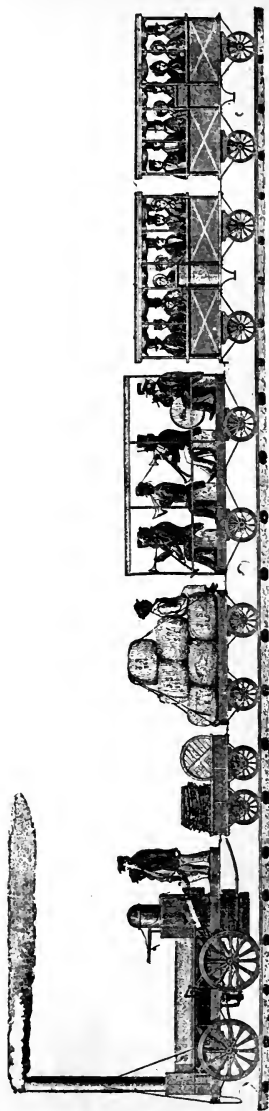
Hulbert,
Gt. Am.
Canals,
I, 179-181.

Reizenstein,
Baltimore
and Ohio
Railroad.

Brown,
First Locomotives in
Am.,
Ch. XV,
XVII,
XX-XXIII,
XXVII-
XXIX.



PETER COOPER'S LOCOMOTIVE, "TOM THUMB," RACING WITH A HORSE CAR.



TRAIN 'TRID OF THE "WEST POINT" ON THE SOUTH CAROLINA RAILROAD.

bitious citizens and enterprising communities made haste to introduce railroad connections and so to reap the first fruits of the new transportation system. The Baltimore and Ohio line was rapidly pushed up the Potomac Valley and was completed to Cumberland in 1835. The crossing of the Alleghany Range and connection with the Ohio was not attained till 1853.

The first railroads were built to supplement water transportation. The aim was to freight the products of the interior to the ports, as is evident in the three lines radiating from Boston to Lowell, Worcester, and Providence, and in the short lines running up country from New Haven, Bridgeport, and New York. Other roads were intended to make connection between water routes: witness the line from Boston to Providence (whence passengers took steamer to New York), the two rival lines across New Jersey, the Philadelphia, Wilmington and Baltimore, and the Great Southern Railway. Before the close of the first decade of railroad building, a series of connecting lines covered the thousand miles between Portland, Maine, and Wilmington, North Carolina, following the direction of the Hartford Trail, the King's Path, and the early post roads. Passengers and shippers might choose between land transportation and the slower but cheaper steamers. Traffic on Lake Erie was supplemented by short lines built inland from Sandusky, Toledo, and Detroit before 1850. In the next decade connection between Lake Erie and the Ohio River was made by the Cincinnati and Sandusky, and the Detroit and Ann Arbor railway was carried through to Lake Michigan to avoid a long and circuitous voyage. In the ten years before the Civil War, transportation along the Mississippi and Missouri rivers was reënforced by a network of railway routes.

Through Routes to the West. — The first railroad across the Alleghanies was projected by public-spirited citizens of Baltimore with intent to establish commercial relations with the interior. New York had a roundabout connection with Buffalo in 1842 by way of the Hudson River (which was frozen over during the winter months) and a series of seven

Lardner,
327-348.

De Bow,
II, 461-463.

independent lines requiring several transfers. The New York and Erie, the first continuous line built across the state, reached Dunkirk on Lake Erie in 1851. There passengers and freight for points farther west were transferred to steamers. Philadelphia had a much more difficult transportation problem than New York, since the height of the range in Pennsylvania is four times as great as through the Mohawk Pass. The state undertook to improve on the canal connection already established by building railways along the more practicable portions of the route, thus reducing the time required. The cars were built as sections of a boat that might be put together and floated when the canal portions of the route were reached. Boston alone of the great northern ports failed to establish a through line to the West. Massachusetts had built the first post road, the first canal, and the first iron tramway (the three-mile line connecting the granite quarries of Quincy with tide water), but her citizens were slow to invest capital in the locomotive. When the Boston and Worcester road was finally opened, it amounted to little more than "a forty mile extension of Boston wharf." New England's railway system was purely local, centering in "the Hub." The Great Western Railway was only with difficulty and by state aid carried through to Albany (1841), and was operated, not in connection with the Boston and Worcester, but under an independent and antagonistic management. Even when the two lines were finally consolidated into the Boston and Albany (1866), the all-important through route to the West was not achieved. The Buffalo and Albany was financed from New York, and its management was not concerned to promote the interests of the rival port.

The Financing of the Roads. — New England, as befitted her dense population and thriving industries, was better provided with railroads than any other section of the country. By 1840 her entrepreneurs had built a mile of railroad for each 4357 of her population. The middle tier of states, from the Hudson River to Lake Michigan and south to the Virginia line, had then a mile of railroad for every 5077

Lardner,
331.

U.S. Census,
1880,
IV, Report
on Rds. in
U.S.,
287-307.

people. Farther south the proportion was one mile to 8018 people. In the next decade Southern entrepreneurs did much to extend their transportation system. In 1860 the respective ratios of railway mileage to population were one to 861, one to 1071, and one to 1076.

Railroad construction in the West began with the building of the line from Detroit to Ann Arbor in 1838. The legislature of Michigan undertook to carry three railroads across the state from Port Huron, Detroit, and Munroe to Lake Michigan ; but the routes lay through virgin forest, and traffic could not pay running expenses. The state management was inefficient, and the enterprise was finally (1850) made over to private companies. The Northwest was wholly agricultural, towns were few and far between, and traffic was light. In 1850 there was but one mile of track for each 19,039 of population in the states of Illinois, Michigan, Wisconsin, Iowa, and Missouri. In the next decade a mania for railroads seized the new West. Roads were built in advance of traffic, and the mileage was rapidly increased. By 1860 there was a mile of railroad for every 912 of the population in the upper Mississippi Valley.

This result could hardly have been achieved without national assistance. Several of the eastern roads had been built with state aid. Maryland had subscribed \$3,000,000 to the stock of the Baltimore and Ohio ; Massachusetts had loaned \$4,000,000 to the Great Western ; Pennsylvania, South Carolina, and Georgia had undertaken to finance their initial roads. The new Western states were hardly adequate to these costly enterprises, and they appealed to Congress for aid. Following the precedent of land grants to canal projects, Congress made over (1850) a tract of two million seven hundred thousand acres of public land to the state of Illinois to be used for the benefit of her Central Railway from Chicago to Cairo. Similar grants were made to Florida and Alabama and Mississippi. The Mobile and Ohio, the first through route from North to South, was likewise built with the proceeds of land grants. This line, together with the Mississippi Central, was carried through to the

Cong. Globe,
1847-1848.
Appendix,
534-537.
1137-1139.

Sanborn,
Cong. Grants
of Land in
Aid of Rys.,
Ch. I, II.

Gulf in 1858-1859, the years immediately preceding the Civil War.

These early railways were, with few exceptions, built by joint stock companies chartered by the state legislatures. The charter was essential to the incorporation of the stockholders and to the securing of the right of way. Land for the laying of the track was usually given, both public and private owners regarding the advantage accruing from improved transportation as full compensation for such concessions. The older states imposed certain stipulations intended to guard the interests of the communities to be served. The rate of dividend was limited (to ten per cent in New England, to twelve per cent in Pennsylvania) by the provision that excess profits must be divided with the state or charges reduced. Freight and passenger rates were to be held within a fixed maximum — six, five, four, and three cents a mile for passengers, five, three, and two dollars per ton mile on freight. The term of the charter was limited, and in some cases the state reserved the right to purchase and operate the road after the lapse of from fifteen to twenty-five years. In the first decade of railway construction, there were built and equipped 2264 miles at a cost of \$100,000,000; in the second decade, 5045 miles at a cost of \$250,000,000; in the third decade, 20,109 miles at a cost of \$1,000,000,000.

Little of this enormous expenditure could be expected to bring in an immediate return. In the densely populated and highly productive sections of the country, a railroad investment might net a handsome revenue. Here the average rate of dividend was eight and one half per cent. But in the sparsely settled districts of the West and South, investors must wait a score of years for their returns and run the risk of finding their stock valueless in the end.

To the community at large the railroad was, in this initial period, an unmixed benefit. Construction created a demand for rails and structural iron that proved a boon to the forges and foundries. Track-laying, machine and car shops, gave employment to an army of laborers, skilled and unskilled.

Meyer,
Railway
Legislation,
Pt. II, Ch. I,
Appendix I.

Lardner,
346-347.

U. S. Census,
1880,
IV, Rept. on
Rds.,
12, 289, 290.

De Bow,
II, 474.

Lardner,
339-342.

The new transportation system meant enhanced prices for crops and lands all along the line of the road. It halved the cost and quartered the time of journeying by stage, and brought opportunity for travel within reach of people of moderate means. The building of railroads meant, too, the extension of the postal service and the cheapening of postage. The government was able to reduce the charge of sending letters from ten, twenty-five, and fifty cents per letter to a uniform rate of three cents.

The Electric Telegraph. — Hand in hand with the extension of railroads went the system of communication by telegraph. The sending of verbal messages along an electric wire had been rendered practicable by F. B. Morse, in 1835, but it was long before business men were convinced that this was a promising venture. In 1844 Congress appropriated \$30,000 for the building of a line from Washington to Baltimore. The following year a line was run from New York to Philadelphia by a private company. The system was soon after extended to Wilmington and Baltimore. Connections between New York and Boston, New York and Albany, Albany and Buffalo, were made in 1846-1847. In 1848 Ezra Cornell built a telegraph line from New York to Cleveland, Toledo, Detroit, Chicago, and Milwaukee. In the same year a line was run from Washington to New Orleans, connecting the seaboard cities.

The installation of a telegraph line is a far simpler and cheaper enterprise than the building of a railroad, and the electric wires overspread the eastern half of the United States with marvelous rapidity. Communication with the Pacific Coast was a much more difficult proposition. From 1852 to 1860 the overland mails were carried by the famous Pony Express, — a relay system of rapid riders via the Salt Lake Trail. Encouraged by the prospect of a subsidy of \$40,000 per year from the United States government, the Western Union Company carried a telegraph line across the Cordilleran Range in 1861.

Telegraphic communication with the Old World was due to the enterprise and persistence of Cyrus W. Field. His

Byrn,
Ch. III.

Jones,
Hist. Sketch
of the Electric
Telegraph,
Ch. VIII.

Inman,
Great Salt
Lake Trail,
Ch. VIII.

transatlantic cable was laid in 1857-1858. It was operated only a few months, but served to demonstrate the feasibility of working a submarine wire. Cable communication was not an established success till after the Civil War (1866).

The Panic of 1857

Sumner,
Hist. of Am.
Currency,
169-187.

Wright,
Industrial
Depressions,
56-60.

Wages and
Prices,
303-308.

Dewey,
259-264.

Our third financial panic, like the first and the second, was caused by undue speculation. The extraordinary success of many business ventures tempted men to invest too heavily. The purchase and improvement of lands in the new West, the opening up of mineral resources — notably coal and iron in Pennsylvania — the building of ships, the construction of railroads, all required large investments of capital that could bring no immediate return commensurate with expenditure. The \$1,350,000,000 buried in railways between 1830 and 1860 represented an enormous drain on the resources of the country. The sinking of one fifth as much capital in canals had brought on the crisis of 1837. As then many canal ventures were abandoned, so now several Western railroad enterprises failed. The New York and Erie, the Illinois Central, the Michigan Central, etc., went into bankruptcy. Doubtless the reduction of import duties in March, 1857, prejudiced such manufacturing interests as reaped no adequate compensation from free raw materials. Some mines and factories were closed, and many curtailed production; but the general depression was slight as compared with that of twenty years previous. Comparatively few operatives were thrown out of employment, and the decline in wages was made good by reduction in the cost of living. The prosperity of farmers and planters was undisturbed. Their foreign market for corn, wheat, and cotton was furthered by free trade.

The crisis of 1857 was primarily a financial panic. Bank management had been conservative and wise in the ten years, 1843-1853, notably in the Eastern cities. Few new banks were established, loans were extended with caution, and the issue of notes was kept within

reasonable limits. The \$100,000,000 worth of gold sent to the mints from the California mines furnished a sufficient specie basis for bank currency. Credit agencies kept pace with the normal business development of the country. But in 1853 a speculative mania took possession of the financial world. In the next four years the number of banking institutions was doubled, credit money was issued to the sum of \$214,800,000, more than double the amount outstanding in 1847, and loans ran up to \$684,500,000. On August 22, 1857, the obligations of the New York banks were \$12,000,000 in excess of their available capital. The failure of the Ohio Life Insurance and Trust Company, on August 24th, dragged down some leading New York firms. A run on the banks followed, and all but the most conservative managements were obliged to suspend. Thousands of the more speculative business ventures went to the wall. There were 4932 failures in 1857, and 4225 in 1858. The losses reached an unprecedented figure, \$387,500,000, but they fell largely on bankers and investors. The rank and file of producers were little affected by the disaster.

Burton,
Crises and
Depressions,
282-286, 344.

Agricultural Improvements

American agriculture was carried on in wasteful, unscientific fashion until the middle of the nineteenth century. Farm implements were of the rudest. Spades, mattocks, pitchforks, and plows were still of home manufacture, the iron parts being clumsily wrought over a blacksmith's forge. In 1807 Peacock succeeded in popularizing his iron plowshare in New Jersey, and in the next decade Smith's plow came into general use in eastern Pennsylvania. The cast-iron mold-board was not only cheaper than the plated wooden share, but stronger and more effective, because it offered less resistance to the soil. More than twelve thousand patents have since been issued for improvements in the structure of the plow. Chilled steel has taken the place of cast-iron; the traction engine has been substituted for draught animals as a propelling force. With the steam plow now used on the

U. S. Census,
1860,
Agriculture,
xi-xxiv.

U. S. Census,
1900,
X, 352-353,
358-364.

Quaintance,
Influence of
Farm Ma-
chinery.

Holmes,
Progress of
Agr. in U. S.

Roberts,
Fertility of
the Land,
Ch. II.

Byrn,
Ch. XVI.

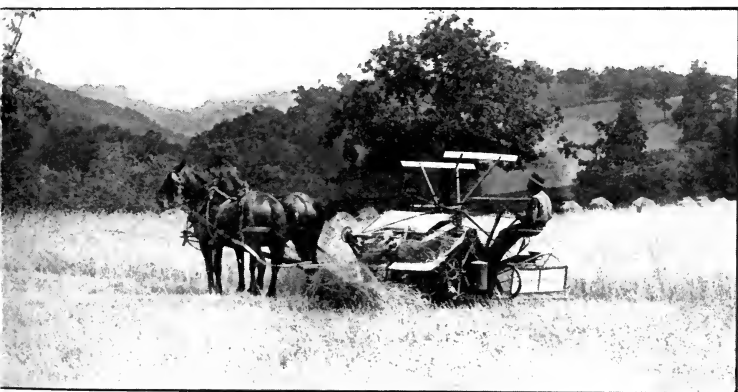
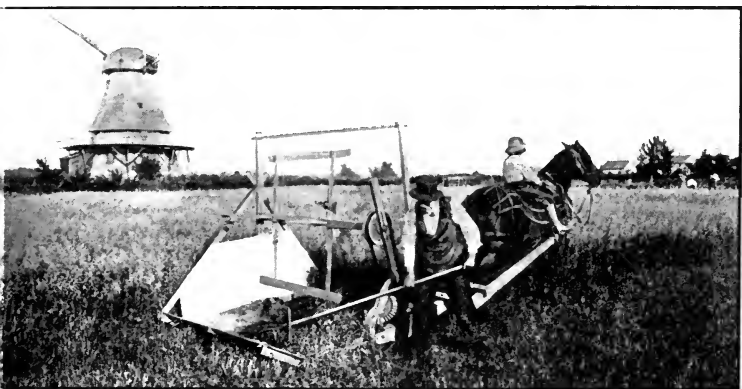
wheat ranches of California, is combined a harrow and seed-drill, so that the ground is prepared and the crop sown at one and the same time.

Patents for an automatic mower were taken out by Obed Hussey of Baltimore, December 31, 1833, and by Cyrus H. McCormick of Rockbridge, Virginia, in the following June. These reapers enabled one man with a team of horses to cut as much grain as twenty men swinging a cradle. Hands were scarce in the new West, and farmers eagerly availed themselves of this labor-saving device. There were three machines manufactured in 1840, three thousand in 1850, and twenty thousand in 1860. Since the principal market was in the upper Mississippi Valley, the manufacture gravitated to this section. McCormick's first reaper was made at a blacksmith's shop in the Shenandoah Valley. In 1846 the works were transferred to Cincinnati, in 1849 to Chicago. Harvester patents to the number of twelve thousand have been issued by the United States government. Later improvements enable the machine to sheaf and bind the falling grain, and finally to thresh it as fast as cut. The saving in time and cost of labor achieved by machinery has been as great for agriculture as for the textile industries. The production of twenty bushels of wheat from an acre of land required in 1830 six days' work. With the aid of machinery the up-to-date farmer can accomplish the same result in three hours and nineteen minutes. The labor cost involved in the production of a bushel of wheat, in spite of the advance in wages, is to-day but one fifth what it was in 1830.

Quaintance,
828.

The value of all the agricultural machinery manufactured in the census year 1850 was \$6,842,611; the output of 1860 was \$20,831,904, that of 1900, \$101,207,428. Some of this machinery has been exported to foreign lands, but the bulk of it represents expenditure on the part of American farmers in the interest of improved agriculture.

Commercial Fertilizers. — The use of fertilizers with which to nourish exhausted soils, came into use in this period. One thousand tons of guano were brought to the United



EVOLUTION OF THE REAPER



States in 1848. The importation steadily increased in the decade following, and amounted to sixty thousand tons in 1856. But the Peruvian, as well as the Mexican, supply was soon exhausted, and the manufacture of mechanical fertilizers was undertaken by an enterprising physician of Baltimore. The essential plant food was derived from bones, shells and phosphate rock, potash, and ammoniates. The refuse of fish canneries and slaughterhouses also was converted into nutriment for growing crops.

Scientific Agriculture. — In his last Congressional message, George Washington, our former president, recommended the establishment of a government department charged with the furthering of intelligent agriculture. The proposition was debated from time to time, but action was deferred till 1839, when Congress appropriated one thousand dollars to be expended in the purchase of new varieties of seeds and plants under the direction of the patent office. The appropriation was increased as the propaganda grew popular, but the Bureau of Agriculture was not organized as a distinct department until 1862. In this same year provision was made for the maintenance of agricultural colleges from the proceeds of land grants, and the movement for scientific agriculture obtained full recognition.

Agricultural experiment stations and model farms have since been established in every state in the Union. The results of expert investigation are disseminated the length and breadth of the country by farmers' bulletins setting forth the best methods. It has been demonstrated that under suitable rotation of crops the drain on the chemical constituents of the soil may be minimized. The introduction of nitrogen-bearing plants — clover, cow-peas, and alfalfa — has done much to conserve the fertility of the fields. New varieties of corn and tobacco have been made to flourish on soils formerly regarded as unproductive. The planting of spring wheat has brought the vast plains of Minnesota and the Dakotas under profitable cultivation. Experiments with sugar beets proved that this crop could be successfully grown through a wide belt in the North and

Writings of Washington, III, 328, 406; X, 178; XII, 222-224.

Greathouse, U. S. Dept. Agriculture.

Roberts, Fertility of the Land, Ch. VI.

U. S. Census, 1900, V, cxxxvi-cxli, X, 560-565.

West. The introduction of the navel orange and irrigation have converted the arid lands of southern California into prosperous orchards. Insect pests, blight, and animal diseases have been combated by scientific remedies. Not only profits from agriculture, but the conditions of farm life have gained enormously from this agrarian economy. The up-to-date farmer uses his brain far more and his muscle far less than was the custom of his predecessors.

Industrial Backwardness of the South

Agriculture. — The planters south of Mason and Dixon's line had small share in the agricultural improvements of the ante-bellum period. Agriculture carried on by slave labor has always been crude and extensive. Machinery could not be used to advantage because the laborers were careless and unintelligent. A cheap wooden plow drawn by mule or ox, a hoe, and a broadax were the only implements with which the field hands could be trusted. The contrast in the equipment of Northern and Southern agriculture is evident in the census statistics. The money value of agricultural implements and machinery averaged in 1850 thirty-seven cents per acre in the Southern states, and seventy-seven in the Northern. In 1860 the difference was still greater, the average value per acre being forty-two cents in the Southern and ninety-four cents in the Northern states. Conservation of the soil by the application of manures and fertilizers, rotation of crops, and the introduction of new seeds seemed so difficult that few planters undertook to improve on antiquated processes. The simpler method was to abandon the cultivation of exhausted soils and clear new land. So usual was this practice, that a field entirely free from stumps was thought less fertile and actually brought a lower price in the market than land cluttered with the débris of the forest. The proportion of improved land was steadily increasing in the Northern sections of the country, while in the Southern it was slightly declining.

Ingle,
Ch. II.

Goodloe,
Resources of
the Southern
States.

U. S. Census,
1900,
V, xxx.

PER CENT OF FARM LAND IMPROVED

SECTION	1850	1860
	Per Cent.	Per Cent.
United States	38.5	40.1
North Atlantic	61.6	63.8
South Atlantic	32.1	32.8
North Central	42.6	48.5
South Central	28.4	27.9

Diversification of crops was being continually urged by the friends of Southern agriculture, but it was well-nigh impossible to act on such advice. The cultivation of fruits, vegetables, and grain required more skill and intelligence than the average plantation could furnish. The planters of Louisiana were unable to raise even the slave rations, and were fain to purchase corn meal, pork, and salt beef from the thrifty farmers north of the Ohio River. In the production of live stock, spite of climatic advantages, the South did not keep pace with the country as a whole. Swine and mules flourished in the open and managed to fatten on acorns and standing fodder, but cattle and horses deteriorated for lack of care.

Ingle,
56, 57, 59.

As in the eighteenth century, so in the nineteenth, Southern landowners found most money gain in growing the great staples which could be planted and harvested by gangs of slaves and by wholesale methods. Tobacco was the principal crop of the northern tier of Southern states — Maryland, Virginia, North Carolina, Tennessee, Kentucky, and Missouri. Rice was still cultivated in the swamp lands of the South Carolina and Georgia coast. The southern half of Louisiana was given over to sugar culture. With one exception crop statistics for the Southern staples show no gain for this period of territorial expansion. The exhausted soils of the Atlantic states bore diminishing harvests. Even the fertile alluvial plains of the Gulf Coastal Plain were wearing out.

De Bow,
II, 397-399;
III, 195-207,
266, 269,
285-299.

CROP STATISTICS

YEAR	RICE	TOBACCO	SUGAR
	lbs.	lbs.	hhds.
1840	89,000,000	219,000,000	
1850	215,000,000	199,000,000	247,000
1860	187,000,000	434,000,000	240,000

The production of rice and sugar, crops confined to a limited area, was evidently falling off. The increase in tobacco was due to the extension of this culture to new soils in the West as well as in the South.

The real gains in Southern agriculture become apparent in the statistics of cotton production. This crop had doubled with every decade from 1800 to 1840. Between 1840 and 1860 the output was trebled.

STATISTICS OF COTTON PRODUCTION

STATE	1834	1850	1860
	bales	bales	bales
South Carolina	130,000	300,901	353,412
Georgia	150,000	499,091	701,840
Virginia	20,000	3,947	12,727
Tennessee	90,000	194,532	296,464
North Carolina	18,000	73,845	145,514
Louisiana	124,000	178,737	777,738
Alabama	170,000	564,429	989,955
Mississippi	170,000	484,292	1,202,507
Arkansas	1,000	65,344	367,393
Texas		58,072	431,463
Florida		45,130	65,153
Total	873,000	2,469,093	5,387,052

In 1821 two thirds of the cotton crop was grown on the Atlantic seaboard; but with the western extension of cotton culture, the proportions were reversed. In 1830

64.4 per cent, and in 1860 77.5 per cent of this staple was grown west of the mountains. South Carolina produced 28 per cent of the total crop in 1821, 15 per cent in 1834, 12 per cent in 1850, and 6.6 per cent in 1860. The planters of both Texas and Arkansas were producing in 1860 larger crops than the state that had begun the cultivation of cotton seventy years before.

U. S. Census,
1900,
VI, 425.

Manufactures.—The economic relations that Great Britain had once undertaken to establish by commercial restrictions, Southern planters were now fulfilling of their own accord. They were devoting all available capital and labor to producing the raw material of English manufactures. Their great staple supplied the cotton factories of Old England with 1,247,000 bales in 1840, and 2,669,000 bales in 1860. In spite of many efforts to foster cotton culture in India, Egypt, and Brazil, England was still absolutely dependent on the American supply, but she found a compensating advantage in the increasing market for cheap cotton goods in the plantations of the Southern states. The cotton manufacturers of New England were no less inconvenienced by the predilection of the South for agriculture and her neglect of manufactures. In the first decade of the nineteenth century the ratio of manufactures to population was higher in the Southern states than in New England. For cotton manufacture, the South had great natural advantages in that the raw material might be had direct from the gin without the cost of transportation and the factor's commission paid by English and by Northern mills. Water power was abundant along the "fall line," and extensive deposits of coal offered fuel for steam power at low cost. Labor, too, was plentiful and cheap. Free white operatives might be had at less than one half the wage paid in the Northern factories. Slaves could be hired at still lower rates, and they proved to have sufficient skill to operate the spinning-mules and even the looms. The advantages of converting slaves to this use were thus stated by a Southern writer: "Cotton growers, who have owned slaves long, know they are capable of making efficient operatives; and when once learned, they

Ingle,
Ch. III.

De Bow,
I, 123, 177,
191, 198.

De Bow,
I, 211-223,
229-242.

De Bow,
III, 33-36.

Ingle,
75-76.

De Bow,
I, 231-232.

are fixed, permanent, and valuable. This branch of the business furnishes profitable employment on cotton to a



THE FALL LINE

U. S. Census,
1860,
Manufactures,
xi-xiv.

U. S. Census,
1860,
Manufactures,
lxvii-lxviii.

portion of the field force, which relieves the soil to that extent which is now wasting away from overfatigue. It gives scope to all the mechanical talent among the slaves, both males and females — men in the machine shops, and women among the mules, throstles, and looms."

In spite of these evident advantages, there were but few cotton mills in the "black belt." Of the million and a quarter spindles operated in the United States in 1840, but

181,000 belonged to the South. In 1850 the South could boast but 242,000 spindles out of three and a half million; in 1860, but 290,359 out of five and a quarter million. The few successful mills were spinning yarn for Northern looms or weaving the coarse cloth that was to be printed in the calico works of New England. No less sluggish were Southern entrepreneurs respecting their opportunity for leather manufactures. Massachusetts was sending into the South each year five million dollars worth of shoes, a good part of which were made of hides tanned outside of New England.

The first American steamer to cross the Atlantic had sailed from Savannah, but no packet lines ran from Southern ports. The enormous export trade in cotton was carried on in Northern or English vessels. Between 1840 and 1860 Southern shipyards built but ten per cent of the total out-





PRIMITIVE IRON FURNACE

put of the United States, and their vessels were small side or stern wheelers intended for the coastwise and river trade.

"The South, while producing a majority of the exports, owned less than a fifth of the shipping of the Union, and brought to the country only one ninth of the imports."

Goodloe,
117.

There was no lack of raw materials. The South possessed inexhaustible forests of pine, oak, and locust, so that masts and spars, turpentine and pitch might be had for from one half to one tenth the price at New York, Newport, or Boston. Hemp for cordage was abundant. Iron ore suitable for anchors and cables existed in limitless quantity.

De Bow,
II, 187.

The iron works of Virginia and Maryland had been maintained without interruption from colonial days far into the nineteenth century. The Principio works are still in active operation. But the mountaineers who worked the iron ore of the Appalachian Range held to the rude and wasteful methods of the pioneers. They could not compete with modern furnaces, and produced only domestic utensils and agricultural implements for local trade. An enterprising Yankee, Daniel Pratt, went to Alabama in the forties, and undertook the construction of cotton gins, saw, grist, and flour mills for the Southern market. In the manufacture of machinery too bulky to bear the cost of transportation he made a great success; but, in general, the iron manufactures of the North were far cheaper. The South developed no first-rate iron or steel works before the Civil War. Vast deposits of high-grade bituminous coal were treasured in the southern Appalachians, but the amount mined was inconsiderable when compared with the output of the Northern states.

Swank,
Ch. XXX.

U. S. Census,
1860,
Manufactures,
ccxiv-ccxvi.

COAL PRODUCTION

YEAR	SOUTH	NORTH
	bush.	bush.
1840.	11,711,073	15,892,152
1860.	34,103,727	110,273,200

De Bow,
II, 435-454,
473.

Railroads could be built through the seaboard and Gulf states at half the cost of construction in the North Atlantic section. The plains and foothills of the South offered slight physical difficulties. Timber and iron for laying the track might be had along the line of route; slave labor cost only twenty cents a day. Nevertheless, Southern railroads were built but slowly. Charleston was not connected with the Mississippi River until 1858. Moreover, the transportation facilities on the Southern roads were inferior and charges higher than on the Northern lines.

Ingle,
Ch. IV.

Because the South was slow to develop new enterprises, the benefits of government action in behalf of shipping, commerce, etc., accrued chiefly to the North. The bonus of from one to two dollars per ton on fishing vessels went to the fishermen of Massachusetts and Maine, the former securing \$7,926,000 and the latter \$4,175,000 out of the \$13,000,000 dispensed between 1789 and 1860. For the same reasons, the subsidized steamship lines belonged to the Northern ports. Charleston subscribed stock for an Atlantic Steam Navigation Company, and Virginia proposed a subsidy for the Franco-American line, but these and other projects came to naught. Despite their cotton trade, the tonnage of the principal ports, Charleston and New Orleans, was declining. New York, Philadelphia, and Baltimore, by building railroads and canals, had arrogated to themselves the commerce of the Mississippi Valley. With the decline of trade, customs revenues fell off, and government expenditure in the way of collection was reduced. Appropriations for internal improvements, the dredging of rivers and harbors, the building of breakwaters, etc., were usually made at the instance of the more enterprising communities to the north of Mason and Dixon's line.

Before the end of this era of expansion the economic divergence between North and South had become so marked as to give rise to considerable jealousy. Something quite analogous to a nonimportation association was projected by the business men of Mobile. A circular issued in the last decade before the war urged upon patriotic citizens that

they patronize Southern industry and discriminate against the products of the rival section. English goods and commercial houses were to be preferred to those of the North.

"*Resolved*, That an association of our citizens, sound in the maintenance of southern principles, and devoted to the interests of the southern country, should be formed for the purpose of encouraging home industry in all its branches, and rendering the South independent of all individuals, and corporations, and societies, inimical to her domestic policy.

"*Resolved*, That we purchase from the North nothing that can be obtained from the South.

"*Resolved*, That we reject, as far as lies in our power, the merchandise and produce of the Northern states hostile to southern institutions. And for such merchandise as is indispensable, let it be bought from the *southern* merchant, who lives and dies in the South, rather than from the northerner, whose earnings here are sooner or later transferred to the North.

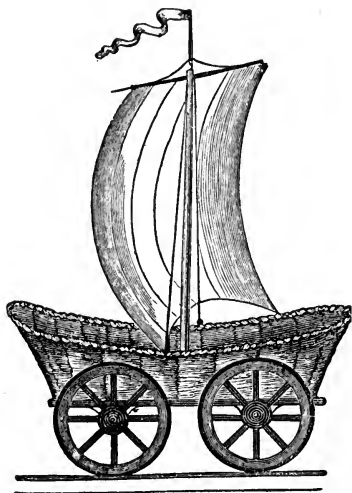
"*Resolved*, That we encourage southern industry, by ceasing at once, the purchase of ready-made clothing coming from the North. This importation to Mobile of boots, shoes, shirts, coats, etc., is a reproach and disgrace to us. Our own tailors, shoemakers, dressmakers and seamstresses, are at least as skillful as those of any other land. Let them meet with the encouragement they deserve.

"*Resolved*, That we encourage southern manufactures, by consuming their goods in preference to all others ; and that we use every exertion to extend their number and variety. That we give every encouragement to the new paper mill, just going into operation near Mobile.

"*Resolved*, That we reduce the cost of foreign goods, by encouraging *direct* importation of all foreign merchandise, which we have until now imported through the North only. That foreign commercial houses favorable to southern interests and policy be encouraged to establish branches and agencies among us, that our retail merchants may safely supply themselves at home, without the risk, trouble and expense, of importation from the North. The European

De Bow,
III, 122-123.

markets would require a supply of our agricultural productions in exchange for their goods, in the rates of our imports, thus giving vitality and stability to a direct trade. The cost of the goods would be so materially lessened as to make us independent of the North for them, and ultimately to destroy their manufacturing interests."



SAILING CAR

CHAPTER VIII

THE CIVIL WAR: ECONOMIC CAUSES AND RESULTS

Slavery versus Free Labor

Trend of Southern Opinion.—In the first decade of our national history, antislavery sentiment was stronger in Virginia than in New England. Washington repeatedly expressed his conviction that slavery should be abolished, and directed his heirs to set free his slaves and provide for their education and maintenance out of the estate. Jefferson regarded slavery as degrading to master and man alike, and introduced in the convention that formulated a state government for Virginia a bill providing for gradual emancipation. Children of slaves born after the passage of the act were to be educated at the public expense "to tillage, arts, or sciences, according to their geniusses, till the females should be eighteen, and the males twenty-one years of age, when they should be colonized to such place as the circumstances of the time should render most proper, sending them out with arms, implements of household and of the handicraft arts, seeds, pairs of the useful domestic animals, etc., to declare them a free and independent people, and extend to them our alliance and protection, till they have acquired strength; and to send vessels at the same time to other parts of the world for an equal number of white inhabitants; to induce whom to migrate hither, proper encouragements were to be proposed." The measure failed because of the opposition of the tobacco planters, but Jefferson hoped for ultimate success. A bill for the emancipation of slaves was brought before the Virginia legislature in 1831. A similar proposition was debated in the Kentucky assem-

Ingle,
Ch. VIII.

Livermore,
Opinions of
the Founders,
20-24, 36-44.

Writings of
Washington,
X, 220; XI,
25, 30; XIV,
272, 281.

Jefferson's
Writings,
III, 192, 243-
250, 266-268;
IV, 82-84,
184-185.

bly as late as 1849. Virginia prohibited the importation of slaves from abroad (1778), and Maryland followed her example in 1783. The twenty years extension of the slave trade conceded by the Federal Constitution was condemned by prominent Southerners. James Madison declared: "Twenty years will produce all the mischief that can be apprehended from the liberty to import slaves. So long a term will be more dishonorable to the national character than to say nothing about it in the Constitution."

A considerable number of slaves were being emancipated by the voluntary act of their owners. John Randolph had signalized his detestation of slavery by freeing his negroes and bequeathing \$8000 for settling them on free soil. This "shocking example" was followed by other conscientious planters. The Friends of Sandy Spring, Maryland, freed their slaves early in the nineteenth century. The hospitable reputation of the Friends of Cass County, Michigan, attracted thither a number of freedmen. One wealthy Virginian emancipated his forty-one slaves by will and provided for their transportation to Cass County and for the purchase of land for their use. The number of manumissions steadily increased until they amounted to from two to three thousand a year. It is estimated that in the last decade before the Civil War some twenty thousand negroes were so set free. The number of slaves escaping to the North was by comparison inconsiderable; the total reported for 1850 was 1011, and for 1860, 803. In 1860 the free colored population of the United States reached a total of 500,000, of whom 250,000 were found in the Southern states and 11,000 at the national capital. The presence of this large body of freedmen, neither citizens nor slaves, and having, therefore, no political status, caused considerable uneasiness to the ruling class, and laws regulating their conduct passed by several states, were hardly less severe than the slave code itself.

To Southern statesmen the insuperable obstacle to general emancipation was the difficulty of providing for African freedmen in the American social and industrial order.

Writings of
James
Madison,
IV, 303.

Thom,
Negroes of
Sandy
Spring.

Washington,
Two Genera-
tions under
Freedom.

U. S. Census,
1860,
Population,
xv, xvi.

Olmsted,
Seaboard
Slave States,
125-133, 633-
637.

De Bow,
II, 269-292.

De Bow,
II, 262-264,
267-269.

Henry Clay hated slavery and ardently hoped to "eradicate this deepest stain upon the character of our country"; nevertheless, he assured the Colonization Society of Kentucky: "If the question were submitted whether there should be either immediate or gradual emancipation of all the slaves in the United States without their removal or colonization, painful as it is to express the opinion, I have no doubt that it would be unwise to emancipate them. For I believe that the aggregate of all the evils which would be engendered upon society upon the supposition of such general emancipation and of the liberated slaves remaining promiscuously among us, would be greater than all the evils of slavery, great as they unquestionably are." Clay favored the colonization of emancipated slaves in the land from which they had been originally abducted, and urged upon Congress the duty of furnishing the means of transportation for at least 52,000 each year — the equivalent of the annual increase in the colored population. He believed that if this opportunity to dispose of the freedmen safely were given, the slave states would enact laws providing for gradual emancipation, and thus ultimately rid themselves "of a universally acknowledged curse."

*Speeches of
Henry Clay,
Dec. 17, 1829.*

*Speeches of
Henry Clay,
Jan. 20, 1827.*

The American Colonization Society was organized at Washington in 1815, in the hope of founding a freedmen's colony on the west coast of Africa, under conditions that should secure their immediate comfort and give some assurance of eventual self-support. The first settlement at Liberia was made in 1822. Seven years later, according to Clay, there were fifteen hundred freedmen in residence. They were successfully cultivating cotton, rice, and sugar, and were maintaining a fully constituted government together with schools, churches, and a public library. In 1849, when Liberia became an independent state, there were but eighteen thousand blacks of American origin in its population. The deportations had amounted to far less than the anticipated fifty-two thousand a year, and it became evident that the solution offered by the American Colonization Society was utterly inadequate.

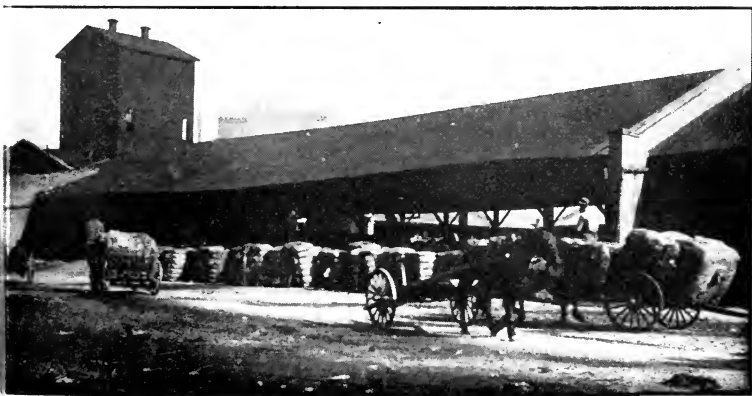
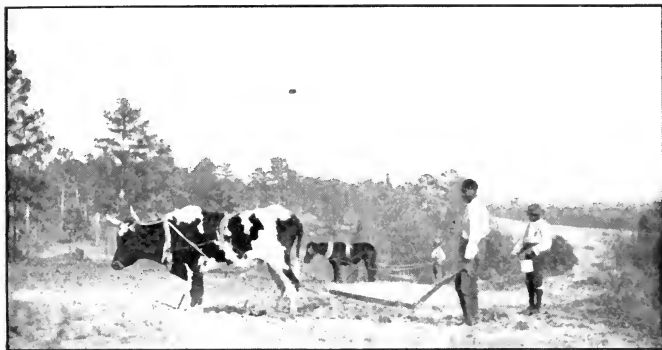
*De Bow,
II, 234, 267,
309-310, 342.*

Brown,
Lower South
in Am. Hist.,
50-83.
De Bow,
II, 253.
III, 131.

Meantime, as the interests of the cotton planters gained ascendancy in the councils of the South, a vigorous agitation in favor of the "peculiar institution" took the place of emancipation projects. The capital invested in cotton plantations amounted, in 1840, to \$327,000,000, and the annual product represented a gross income of twenty, and a net income of eight, per cent.

De Bow,
II, 235.

Large-scale production seemed to necessitate slave labor. Governor Hammond of South Carolina declared that the cotton industry would be ruined by the emancipation of the negroes. "The first and most obvious effect would be to put an end to the cultivation of our great southern staple. And this would be equally the result, if we suppose the emancipated negroes to be in no way distinguished from the free laborers of other countries, and that their labor would be equally effective. In that case, they would soon cease to be laborers for hire, but would scatter themselves over our unbounded territory, to become independent land-owners themselves. The cultivation of the soil on an extensive scale can only be carried on where there are slaves, or in countries superabounding with free labor. No such operations are carried on in any portion of our own country where there are not slaves. Such are carried on in England, where there is an overflowing population and intense competition for employment. And our institutions seem suited to the exigencies of our respective situations. There, a much greater number of laborers is required at one season of the year than at another, and the farmer may enlarge or diminish the quantity of labor he employs, as circumstances may require. Here, about the same quantity of labor is required at every season, and the planter suffers no inconvenience from retaining his laborers throughout the year. Imagine an extensive rice or cotton plantation cultivated by free laborers, who might perhaps *strike* for an increase in wages at a season when the neglect of a few days would insure the destruction of the whole crop: even if it were possible to secure laborers at all, what planter would venture to carry on his operations under such circumstances? I



COTTON PRODUCTION



need hardly say, that these staples cannot be produced to any extent where the proprietor of the soil cultivates it with his own hands. He can do little more than produce the necessary food for himself and his family."

As the money interest in slave labor grew more potent, Southern leaders undertook to justify the labor system of the South, and to prove that slavery was no more degrading than wage labor. "What is the essential character of *Slavery*, and in what does it differ from the *servitude* of other countries? If I should venture on a definition, I should say that where a man is compelled to labor at the will of another, and to give him much the greater portion of the product of his labor, there *Slavery* exists; and it is immaterial by what sort of compulsion the will of the laborer is subdued. It is what no human being would do without some sort of compulsion. He cannot be compelled to labor by blows. No, but what difference does it make, if you can inflict any other sort of torture which will be equally effectual in subduing the will? if you can starve him, or alarm him for the subsistence of himself or his family? And is it not under this compulsion that the *freeman* labors?"

De Bow,
II, 223.

Against such arguments, one should in all fairness set the conclusions of a careful Northern observer. F. L. Olmsted, who made extended horseback journeys through the South in 1853 and 1855, became convinced that the industrial efficiency of free labor was from two to four times that of slaves who lack the stimulus of acquisition. "This is the truth, then—is it not? The slaves are generally sufficiently well-fed to be in tolerable working condition; but not as well as our free laborers generally are: slavery, in practice, affords no safety against occasional suffering for want of food among laborers, or even against their starvation, any more than the competitive system; while it withholds all encouragement from the laborer to improve his faculties and his skill; destroys his self-respect, misdirects and debases his ambition, and withholds all the natural motives which lead men to endeavor to increase their capacity of usefulness to their country and the world. To all this, the *occasional*

Olmsted,
The Cotton
Kingdom,
II, 184-212,
236-251, 252
271.
Olmsted,
Seaboard
Slave States,
90-91, 98-99,
105, 185-186,
686-715.

suffering of the free laborer is favorable, on the whole. The occasional suffering of the slave has no such advantage. To deceit, indolence, malevolence, and thievery, it may lead, as may the suffering . . . of the laborer, but to industry, cultivation of skill, perseverance, economy, and virtuous habits, neither the suffering, nor the dread of it as a possibility, ever can lead the slave, as it generally does the free laborer, unless it is by inducing him to run away."

Trend of Opinion in the North. — The emancipation movement of the North, in its later stages at least, gathered inspiration from the democratic theories of Thomas Jefferson. The gospel of liberty, equality, and fraternity imbibed in revolutionary France led Jefferson to prefix to the Declaration of Independence the assertion that "all men are created equal," the potent shibboleth of every humanitarian movement that has agitated the American people since his day. Earnest of his faith in this democratic dogma was given in Jefferson's plan for the organization of the Northwest Territory (submitted to the Congress of the Confederation in March, 1784), in which manhood suffrage, the sale to actual settlers of the public lands, and the prohibition of slavery were guaranteed in the region Virginia was about to cede to the United States. Jefferson's accession to the presidency was hailed as the triumph of the people's party. The removal of the original limitations on the suffrage in the first decades of the nineteenth century and the extension of the ballot privilege to every male citizen was the fruition of his doctrine of popular sovereignty.

The humanitarian movement originated with the visit to the United States in 1825 of Robert Owen, the English communist. Owen was the founder of a model factory town at New Lanark, Scotland, and the chief promoter of the factory act of 1819, the first successful attempt to limit child labor in the cotton mills of Great Britain. The vested interests of the Old World opposed vexatious obstacles to the carrying out of his social and economic ideals, and he determined to make his experiment in communism on virgin soil. A tract of thirty thousand acres along the Wabash

Robert Dale
Owen,
Autobiogra-
phy, *Ho!*
Ch. III,
VIII, IX.

Sargant,
Robt. Owen,
Ch. XX-
XXII.

River was purchased of the Rappists, a German religious community, and hither Owen invited the "industrious and well-disposed of all nations" who desired to test the socializing potency of human brotherhood. Some nine hundred people gathered at New Harmony, and \$200,000 out of Owen's private fortune was invested in the experiment; but the ideal community held together only three years. Owen found explanation of the failure in the latent selfishness of human nature. "There was not disinterested industry; there was not mutual confidence; there was not practical experience; there was not unison of action, because there was not unanimity of counsel. These were the points of difference and dissension, the rock upon which the social bark struck and was wrecked." During this and subsequent visits to the United States, this apostle of a new social order lectured to great audiences in Eastern cities, and addressed a distinguished assembly at the national capital. He counted such men as John Quincy Adams among his friends, and solicited public indorsement of his panacea for the woes of society. Undiscouraged by the failure at New Harmony, his disciples undertook a series of similar experiments. In the stirring years from 1830 to 1860 eleven Owenite communities were planted, flourished for brief periods, and died. Most of the settlers came from New England, and, with the sole exception of Nashoba, an experiment in emancipation, their settlements were north of Mason and Dixon's line. Owen failed to demonstrate the practicability of communism, but his influence for social betterment was great. Faith in human brotherhood and in the possibilities of social and economic reform spread like a religious revival throughout the North. Many of the men prominent in the humanitarian movements of the next thirty years were originally converts to Robert Owen's gospel.

Noyes,
Hist. of Am.
Socialisms,
Ch. II-IV.

Sotheran,
Horace
Greeley.

The Organization of Labor began with the introduction of machinery and the massing of operatives in factories and workshops. The natural effect was the consciousness of common interests and the determination to promote the

Ely,
Labor Move-
ment in
America,
Ch. III.

McNeill,
The Labor
Movement,
Ch. IV.

betterment of working conditions by concerted demand. The first trade unions appeared in the industrial centers of the North Atlantic states; New York witnessed its first strike in 1802, Boston in 1825. The first trade union council was convened in New York in 1833. With improved facilities for communication and assembly, these local unions were converted into federal associations. The printers were so organized in 1852, the hat finishers in 1854, the iron workers and machinists in 1858 and 1859.

Sotheran,
106-107.

Bodies of mechanics affiliated along trade union lines will further their own immediate interests with small regard for the well-being of unskilled laborers. With the extension of the suffrage, workingmen began to organize to secure, by means of the ballot, laws that should benefit not their trade fellows merely, but the whole body of wage-earners. The Workingmen's party held its first general convention at Syracuse in 1830. In the following year the New England Association of Farmers, Mechanics and Other Workingmen, proposed "the organization of the whole laboring population of this United Republic" and the revision of "our social and political system." The founders declared their "fixed determination to persevere till our wrongs are redressed, and to imbue the minds of our offspring with a spirit of abhorrence for the usurpations of aristocracy, and of resistance to their oppressions, so invincible, that they shall dedicate their lives to a completion of the work which their ancestors commenced in their struggle for national and their sires have continued in their contest for personal independence." In 1830 the Workingmen's party of New York polled less than three thousand votes in the state elections, but in New York City, where the organization had a strong constituency, it succeeded in electing three or four members of the legislature. In 1832 the party declared for Andrew Jackson and threw all its weight in favor of the Democratic president. In 1835, as "Locofocos," they captured the New York Democratic convention and promulgated a party platform based on the Declaration of Independence. Martin Van Buren owed his election in good part to the votes of the

workingmen of the Eastern states, and he rewarded their loyalty (1840) by prescribing a ten-hour day for all employees of the national government. The crisis of 1837 and the subsequent industrial depression checked, for the time being, the growth of the labor movement.

In 1842 a second wave of socialist enthusiasm passed over New England and the North. Albert Brisbane, the apostle of Fourier's gospel of association, found a hearing among the most thoughtful men of the day, such as Horace Greeley, the editor of the *New York Tribune*, and William Henry Channing, who edited the *Spirit of the Age*, Wendell Philips, Parke Godwin, etc. A number of Fourierist phalansteries, thirty or forty in all, were set on foot, and to these came men and women of all classes and conditions, hoping to find in community of property and labor the secret of social regeneration. These associations, without exception, made their experiments in the Northern tier of states—Massachusetts, New York, Pennsylvania, Ohio, Indiana, Illinois, and Iowa. The practical results of the propaganda were no more encouraging than accrued from the Owenite movement; but its influence was even greater and more lasting. Failing to establish ideal communities, the reformers undertook to remedy the abuses of the society in which they were forced to live. The labor movement gathered fresh energy. George Henry Evans and Robert Dale Owen and Frances Wright, all three of English birth and Owenites, addressed great audiences in the Hall of Science, New York, and convinced their hearers of the necessity of agitating for legislative reforms. Evans's paper, *Young America*, set forth among the objects to be attained, "the abolition of chattel slavery" and the free distribution of the public lands.

Slavery and the Territories.—The advocates of the rights of free labor strenuously opposed the annexation of Texas and the resulting war with Mexico. The Mexican cession an accomplished fact, they strove to prevent the admission of slavery into the territories both north and south of the Missouri Compromise line. As the Democratic party fell under the sway of Southern political leaders and became com-

Sotheran,
121-122,
148-153, 187.

Noyes,
Hist. of Am.
Socialisms,
Ch. II.

Ingle,
Ch. IX.

Brown,
Lower South
in Am. Hist.,
83-112.

The Spirit of
the Age,
I, 203-204.

Julian,
Political Rec-
ollections,
Ch. II, III,
VI-VIII.

mitted to the policy of noninterference, the labor men transferred their allegiance to the Liberty party, with whose fight against slavery and with whose championship of free land they were in hearty accord. The Free-Soil Democracy, organized at Buffalo in 1848, combined the more moderate wing of the Liberty party, the malcontent Whigs and Democrats, with the elements of the Workingmen's party. The platform declared the prime object of this revolt to be to maintain "the rights of free labor against the aggression of the slave power and to secure free soil to a free people." The Massachusetts state convention more succinctly expressed the point of view of the wage-earners: "*Resolved*, That labor is universally dishonored and its interests compromised by the existence of slavery in this country, and that the first step for its elevation must be the limitation and extinction of slavery." Van Buren, the nominee of the Free Soil Democrats, secured 291,000 votes, of which 120,000 were polled in New York, 38,000 in Massachusetts, and 35,000 in Ohio; but he was defeated by Zachary Taylor, a slave owner who had won popular favor by brilliant service in the Mexican War. In its platform of 1852 the Free Soil Democracy declared explicitly that slavery must be excluded from the territories, and that "the public land of the United States belongs to the people and should not be sold to individuals nor granted to corporations, but should be held as a sacred trust for the benefit of the people and should be granted in limited quantities, free of cost, to landless settlers." The 156,000 votes cast for Hale and Julian fell far short of Van Buren's total, but represented a body of men thoroughly convinced on these two points.

The utterances of the Republican party on the mooted questions of slavery and the public lands were more cautious, but its platform served as a rallying ground for the abolitionists, the free soilers, and the men who cared most of all for the preservation of the Union. Fremont, in 1856, secured the total electoral vote of New England together with that of New York, Ohio, Michigan, Iowa, and Wisconsin; and Lincoln in 1860 added to the list of Republican

states New Jersey, Pennsylvania, Indiana, Illinois, Minnesota, California, and Oregon.

The triumph of the Republican party meant the exclusion of slavery from the territories and the ultimate ruin of the "peculiar institution." The proslavery men of the Southern states forced the issue. Six weeks after Lincoln's election, South Carolina adopted the Ordinance of Secession, and her example was immediately followed by the six Gulf states. Maryland and Kentucky were the only slaveholding states that did not secede from the Union.

The Cost of the War

Each party to the controversy was fighting for the maintenance of a political principle on which depended the success of its peculiar economic and social order. The five years' conflict was waged with obstinate endurance and reckless expenditure of men and money by North and South alike. The issue of the war was determined by the final exhaustion of the Confederacy. The resources of the cotton kingdom were far less than those of the Northern states. The population of the South was twelve million souls, of whom four millions were slaves. The North ^{was composed of} opposed a population of nineteen millions, all free. The taxable property of the South was, by the census of 1860, estimated at five billion dollars, of which two billions represented slaves and one billion and a half real estate devoted, in the main, to the growing of cotton. The property of the Northern states approximated eleven billion dollars, and consisted, in good part, of manufacturing, mining, and commercial plants whose products were more readily convertible into the sinews of war. When Lee surrendered at Appomattox, his men were found utterly destitute of supplies and weak from lack of food.

Confederate Finances. — It was expected that the expenses of the Confederate government would be met by customs revenue, but the effectual blockade maintained by the Federal navy stopped foreign trade, and the returns

Schwab,
Confederate
States of
America,
Ch. XI, XII.



DISTRIBUTION OF POPULATION, 1860

were disappointing. The individual states were then asked to levy a direct property tax of one half of one per cent, and to turn over the proceeds to the general treasury. No more than \$18,000,000 resulted from this requisition, and payments were usually made, not in cash, but in state bonds. It speedily became evident that the augmenting military expenses must be met by loans. In the first year of the war the Confederate government issued bonds to the amount of \$15,000,000 at eight per cent, interest and principal being secured by an export tax on cotton of one eighth of a cent a pound. This issue was taken up by Southern bankers, notably those of New Orleans and Charleston, and brought all the available specie in the Confederacy into the government treasury. The money was immediately sent abroad for military supplies. A bond issue of \$150,000,000, ordered in the following year, was made payable in produce. By this loan the government came into possession of large stores of cotton, tobacco, wheat, rice, sugar, and molasses, commodities that were a drug in the market, together with \$1,000,000 in paper currency. A foreign loan of \$150,000,000 was negotiated in January, 1863, the bonds being made redeemable in cotton. Since cotton was selling at famine prices in England and on the Continent, these securities sold without difficulty. The government held against this pledge 350,000 bales of cotton, and the supply might have been doubled readily, but all efforts to ship the cotton to the foreign creditors failed.

Schwab,
III, IV.

It soon became evident to Confederate financiers that but a fraction of the military expenditure could be met by bond issues and that recourse to credit money was inevitable. Treasury notes redeemable within the year and bearing interest at 3.65 per cent, had been issued in March, 1861; on the issue of April, 1862, the rate was raised to 7.3 per cent. Government notes, offering no interest and not to be redeemed till "six months after the ratification of a treaty of peace," were ordered at the same time. This paper currency was made receivable for taxes, but the Confederate Congress refrained from declaring it legal tender

Schwab,
Ch. V, VII,
VIII.

in payment of private debts. The issues of 1861 amounted to \$30,000,000. By December, 1862, \$450,000,000 had been forced into circulation. The output of 1863 was \$150,000,000, and no less was issued in each of the last two years of the war. The sum of the issues of Confederate currency approximated one billion. To this appalling total were added millions of dollars by the unrecorded issues of the state governments, the banks, and private business firms. Depreciation followed inevitably, — in part, because the currency was inflated, in part, because men lost confidence in its ultimate redemption. In January, 1863, a gold dollar was worth three dollars in Confederate paper; twelve months later gold exchanged for twenty-one, and in January, 1865, for fifty-three dollars in the debased currency. After the fall of Richmond, the Confederate money passed out of circulation. It was lost or destroyed or found its way into historical museums.

Schwab,
Ch. VI, IX.

In her extremity the South was forced to various other financial expedients exploited during the Revolutionary War. Men who refused to receive Confederate money were denounced as traitors and condemned by the state legislatures to heavy penalties. Price conventions were held with a view to fixing fair rates of exchange; stay laws were passed suspending the collection of debts notably in case of Confederate soldiers, till the close of the war; the sequestration of obligations owing to the Federal government and to Northern creditors was ordered. Confiscation of Union stores and the property of the United States to military uses was authorized by the Confederate Congress.

Sherman,
Recollections,
I, Ch. XI-
XII.

Wells,
Recent Fi-
nancial, etc.,
Experiences
of the U. S.

Federal Finances. — When the Charleston batteries fired on Fort Sumter, the Federal government was entirely unprepared for war. The surplus revenues of 1857 were exhausted, and the treasury showed a deficit of \$56,000,000. Customs receipts under the Democratic tariff proving inadequate to ordinary expenditure, the rates had been somewhat increased by the Morrill Act of 1861. In accordance with the recommendations of Secretary Chase, a further increase

notably in the revenue duties on salt, coffee, and tea, was legislated in the first year of the war. The rates were raised from year to year, but the customs receipts did not wax in proportion. Commerce was seriously interrupted by the depredations of Confederate cruisers, and there was a marked decline in imports.

Dewey,
Ch. XII,
XIII.

Bolles,
III, Bk. I,
Ch. I-III.

YEAR	CUSTOMS RECEIPTS	IMPORTS
1860-1861	\$39,000,000	\$289,000,000
1861-1862	49,000,000	189,000,000
1862-1863	69,000,000	243,000,000
1863-1864	102,000,000	316,000,000
1864-1865	85,000,000	239,000,000

The Federal government then had resort to devices for raising internal revenue. Sumptuary taxes were laid on luxuries, such as carriages, yachts, billiard tables, and plate; licenses were exacted of many occupations; manufacturing and transportation companies were assessed at five and six per cent; stamps were required on contracts, legal documents, etc.; and excise duties were collected from the producers of spirits, ale, beer, and tobacco. With a view to adjusting the burden to wealth, Congress, for the first time in its history, levied an income tax. In 1862 three per cent was laid on all incomes of more than \$800 a year. In 1864 this tax was raised to four per cent, while five and ten per cent was required from men of ampler revenues. Since the Republican party was enthusiastically supported by the bulk of business men, there was little protest against these "war measures." Even the income tax was paid with no grumbling, and with but little attempt at evasion. The Federal revenues of 1865-1866 reached the unprecedented sum of \$559,000,000. But military expenses augmented even more rapidly than income, and the government was obliged to borrow the money with which to carry on the war.

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EXPENDITURE FOR ARMY AND NAVY

1861	\$35,389,000
1862	431,813,000
1863	666,575,000
1864	.	.	.	.	.	.	.	776,096,000
1865	.	.	.	.	.	.	.	1,153,307,000

Bolles,
III, Bk. I, Ch.
IV, V, VIII.

Dewey,
354-358.

Mitchell,
Hist. of the
Greenbacks,
Pt. I.

Dewey,
360-367.

Mitchell,
Hist. of the
Greenbacks,
405, 419.

In February, 1862, Congress authorized a loan of \$500,000,000 in long term bonds at six per cent, and at the same time provided for the issue of \$150,000,000 in non-interest bearing notes. The bonds sold but slowly, for the rate of interest was not high in view of the risk of ultimate repudiation. But \$23,750,000 was secured from bond sales in the course of the first year. The government was forced again to have recourse to bills of credit. An issue of \$150,000,000 was authorized in July, 1862, and equal amounts were ordered in January and March of 1863. The act of February, 1862, gave these "greenbacks" legal tender value, and the constitutionality of this provision was later sustained by the Supreme Court. The notes nevertheless declined in purchasing power. The amount of depreciation varied with the fluctuating fortunes of war. The nadir point was reached in July and August of 1864, when this paper dollar was worth but one third its face in gold. On June 30, 1864, further issues were forbidden, but the mischief was already done. The depreciated currency had driven gold from circulation (except on the Pacific coast), and prices of all commodities were doubled and trebled. It is estimated that the war debt was at least one fifth greater than if government purchases had been made in specie.

Industrial Transformation .

Dewey,
317-328,
383-390.

The National Banking System.—By legislation of February, 1863, amended in June, 1864, Congress provided for a national bank currency guaranteed by government bonds. Every banking association complying with the

terms of the law was to be furnished by the comptroller of the currency with engraved notes to the amount of ninety per cent of the market value of the securities subscribed. A brisk demand for United States bonds speedily developed. The sales of 1863 amounted to \$400,000,000, and \$600,000,000 additional were sold without difficulty during the next two years. The political advantages of this policy were no less than in Hamilton's day. Bank officials and stockholders were naturally eager to maintain the solvency of the Federal treasury, and all the business interests of the North were firmly attached to the Union. The fiscal advantages of the national banking system were equally important and enduring. For the uncertainties of seven thousand varieties of state bank notes issued by fifteen hundred private banks that were chartered by twenty-nine state legislatures of varying financial proclivities, was substituted a uniform currency whose redemption was guaranteed by bonds of the United States. The state banks could make but a losing fight against such odds, but the retirement of their issues was forced by a ten per cent tax (March, 1865).

Bolles,
III, Bk. I,
Ch. XI; Bk.
II, Ch. IV.

Redemption of the Greenbacks.—The accumulated war debt of the Federal government, represented in bonds, treasury notes, certificates of indebtedness, and greenbacks, amounted (September, 1865) to \$2,546,000,000, and of this enormous sum no part was repudiated. The taxpaying capacity of the country was ample to care for both interest and principal. An act of April, 1866, provided for the funding of the bond issues and for the redemption of the government notes. Greenbacks to the amount of \$10,000,000 were to be called in and exchanged for specie within the first six months. The secretary of the treasury was authorized thereafter to redeem not more than \$4,000,000 per month. Only \$44,000,000 was cancelled in accordance with this plan, but the contraction in the volume of the currency was attended by a shrinkage in prices that proved disturbing to business interests developed under inflated conditions. The redemption of this part of the government debt was opposed, moreover, by the advocates of cheap and

Dewey,
329-330,
360-378.

Bolles,
III, Bk. II,
Ch. I, II.

Dewey,
378-382.

Report of
the Sec. of
the Treas.,
1897,
cxxxii.

abundant money and by the enemies of the national banks. Congress yielded to pressure, and in February, 1868, the cancelling of the greenbacks was suspended, and the outstanding notes were allowed to form a permanent element in our circulating medium. The resumption of specie payments by the United States treasury in 1879 brought these legal tender notes to a parity with gold.

Revival of Protective Tariffs. — The levy of import duties had been necessitated by the heavy taxes imposed on domestic industries, a tax amounting to eight and fifteen and, in some cases, to twenty per cent. Our factories, distilleries, and iron works, burdened by such requisitions, could not continue to produce in competition with untaxed imports. The excise paid on textiles, on iron and steel, petroleum, sugar, salt, paper, leather, etc., must be offset by corresponding import duties. Within a fortnight of the passing of the internal revenue act of 1862, Congress passed a tariff law raising the impost on salt from 12 cents to 18 cents per hundredweight, on glass and iron manufactures from 30 to 35 per cent, on cottons from 25 to 30 per cent, on silks from 30 to 40 per cent, on woollens from 25 to 30 per cent, with an added specific duty of 18 cents per pound. The average rate for the tariff schedule of 1862 was 37.2 per cent.

In 1864 a second internal revenue act raised the excise and income taxes and greatly increased the list of industries subject to the levy. A tariff act immediately followed, by which the average rate on imports was raised to 47 per cent. The duty on glass manufactures mounted from 35 to 40 per cent. Three dollars per ton was added to the duty on pig iron. Ten per cent was added to the import tax on silks. The specific duty on woollens was raised to 24 cents per pound, and the ad valorem rate to 40 per cent. The duties on raw wool imposed by the Morrill Tariff were doubled by the act of 1864. So urgent was the need of revenue, and so ready were loyal Republicans to strengthen the army and navy, that little attention was given to the industrial bearing of this extraordinary tariff schedule. The bill was accepted as it came from the Committee on Ways and Means without

Taussig,
Tariff Hist.
of the U. S.,
155-193.

Rabbeno,
200-258.

Bolles,
III, Bk. II,
Ch. VII.

Cong. Globe,
1861-1862,
1196, 2979.

amendment. Only three days' discussion was allowed it in the House, and but two days' in the Senate. Undoubtedly the representatives of certain business interests influenced the details of the bill, asking and securing better rates than were necessary to offset their excise tax. The result was a degree of protection beyond that accorded by any previous tariff. Import duties as high or higher had been imposed in 1812, but they were laid to meet the financial emergency and were reduced the year following on the declaration of peace. Not so the tariff arising out of the Civil War. The internal taxes levied by the Federal Congress (with the exception of the excise on liquors, tobacco, matches, patent medicines, etc.) were repealed before 1872; but no corresponding reduction of import duties was undertaken by the party in power. The industries that had prospered within the tariff barrier protested against opening the gates to foreign products, and they were too influential to be gain-said. Among the people at large a 'protective tariff was closely associated with the vindication of Federal authority and the emancipation of the slaves, and was regarded as essential to the maintenance of the Union.

Dewey,
391-401.

As it became evident that the import tax imposed a heavy burden on consumers, sundry attempts were made to revise the schedule. These efforts resulted in the reduction or repeal of nonprotective duties. Finally, when a surplus revenue of \$100,000,000 had accumulated from customs receipts, Congress was forced to take the question of revision under serious consideration. The act of 1872 repealed the duties on tea and coffee, halved the tax on salt, and provided that but ninety per cent of the existing duties should be imposed on other imports. The financial panic of 1873 alarmed the friends of the protected interests. The horizontal reduction of ten per cent was repealed, and the previous rates were restored in the tariff act of 1875.

Material Prosperity. — The war demands, coupled with the protective tariff, induced an extraordinary activity in every department of business enterprise. Universal buoyancy and unbounded confidence in the future rendered it



easy to borrow money at home and abroad. European capitalists invested readily in United States securities, railroad bonds, and mining stock, and the resources of the country were exploited as never before. In the decade following on the war, the annual output of pig iron was doubled, that of coal quintupled, while the production of steel increased a hundredfold. The iron ranges of the Lake Superior region were opened up and began shipping ore in vast quantities to the works at Pittsburg, Buffalo, Cleveland, and Chicago. The Marquette, Menominee, and Gogebic ranges were within easy reach of the ports, whence direct transportation by freight steamer was provided. Improvement in methods of mining and smelting soon reduced the cost of producing iron and steel to the English average.

Meantime, the copper deposits of the Keweenaw Peninsula were contributing their share to the gains of this phenomenal period. Mining operations had begun in 1844, but the output was inconsiderable till after the war. In 1875 the copper mines of northern Michigan produced sixteen thousand tons, ninety per cent of the total yield of the United States. Since copper was then selling at \$400 per ton, this was an investment even more attractive than that offered by the iron ranges. Entrepreneurs and workmen swarmed into the new El Dorado, and the wastes of the Upper Peninsula were converted into income-bearing properties.

The yield of gold from California had fallen off, but other sources of supply were found. The Comstock Lode, bearing veins of gold and silver in fortunate conjunction, was discovered in 1859. Here, in the heart of the Great Basin, in precisely the most barren region of the Cordilleran Range, a fountain of wealth was opened up. In 1860 silver was produced to the value of \$550,000, and gold to the value of \$200,000. Prospectors and speculators flocked to the district, and mushroom towns sprang into being. The population of Nevada grew from 6857 in 1860 to 42,491 in 1870, and 62,266 in 1880. The climax of production was reached in 1877, when the Comstock Lode yielded gold and silver

Special Rept.
U. S. Census
on Mines and
Quarries,
1902,
395-425.

Rept. on
Mines and
Quarries,
482-486.

Rept. on
Mines and
Quarries,
563, 571-577.

Shinn,
Story of the
Mine,
Ch. I, II.

to the value of \$36,000,000. Thereafter the output declined, and Nevada gave first place to Colorado. The production of the precious metals began to exceed domestic needs, and the surplus was exported. In 1873 we sent \$40,000,000 worth of silver to foreign markets, and in 1875 \$67,000,000 worth of gold.

The development of manufactures was no less phenomenal than that of mines. New inventions and improved machinery stimulated business enterprise in every line of production. The increase in the number of establishments, output, employees, and wages during the war decade exceeded that of the "golden age" itself.

DEVELOPMENT OF MANUFACTURES

DECADE	ESTABLISHMENTS	EMPLOYEES	WAGES PAID	OUTPUT
	Per Cent	Per Cent	Per Cent	Per Cent
1850-1860	14.2	37.0	60.0	85.5
1860-1870	79.6	56.6	104.7	124.4
1870-1880	.7	33.0	22.2	26.9

Notable among the material achievements of the war decade was the utilization of a new and valuable raw material, petroleum. The farmers of northwestern Pennsylvania had long known and used in crude fashion the "rock oil" that floated to the surface of streams and ponds. It was at first bottled for medicinal purposes. Seneca Oil, Keer's Oil, etc., were sold as liniment all over the United States. The inflammable character of the fluid attracted the attention of scientists, and analysis proved that petroleum possessed constituents of high market value. Distillation developed illuminating oil, lubricating oil, naphtha, gasolene, benzine, paraffin, etc. A company was organized in Boston to produce and refine petroleum on a large scale. Their agent, E. L. Drake, sunk an artesian well at Titusville in the summer of 1859, from which he pumped twenty-five barrels of oil on the first

Tarbell,
Hist. of the
Standard Oil
Company,
I, Ch. I, II.

Bishop,
II, 501-502.

day. Since crude petroleum was then worth twenty dollars a barrel, his success converted this remote and barren region into a scene of wild speculation. The farmers began to drill for oil, and many a man discovered a fountain of wealth beneath his rugged fields. Prospectors flocked to the region and bought claims at random. The upper valley of the Allegheny River and its tributaries, French and Oil creeks, was soon bristling with pumps and derricks. The total output of 1859 was two thousand barrels. Many of the wells required no pumping, but gushed oil night and day. A yield of two, three, and four thousand barrels a day was later not extraordinary. The difficulty was to dispose of the product. At first the crude oil was carted in barrels to the river, loaded on scows, and floated down stream to Pittsburg. A branch railroad from Erie was built to Titusville in 1863, and to Oil City by 1865. Pipes were laid from the wells to the railway, and iron tanks were constructed at centers of deposit for storing the oil. Forty million barrels of crude oil were brought to the surface in the first twelve years and sold in the domestic and foreign market. The new illuminant was sent to Egypt, China, East India, and Africa, and by 1872 had reached fourth rank in the exports of the United States. Meantime, twenty refineries had been set up in the oil region, but these enterprises were hampered by the difficulty of getting distilling apparatus and the necessary chemicals over rough mountain roads. It was cheaper to transport the crude oil to Pittsburg, Cleveland, or Erie. The refining business was even undertaken at Boston, New York, Philadelphia, and Baltimore. Foreign consignees began to ask for crude oil that they might secure the profits of manufacture. By 1869 Cleveland took the lead in the refining of oil, distancing in capacity and value of output Pittsburg, New York, Boston, and the oil region itself. The largest and most enterprising of the Cleveland refineries, the Standard Oil Company, succeeded in buying in all local competitors, and in securing from the railroads preferential freight rates that gave its product an advantage in Eastern and Western markets. Wholesale production gave oppor-

tunity to convert the wastes of the refinery into by-products far more valuable than the main output.

The wealth of the country as a whole, despite the disasters that had fallen on the South, rose from sixteen billion dollars in 1860 to thirty-nine billion dollars in 1879 and forty-three billion dollars in 1880. During this same twenty-year period, the population of the United States grew from thirty millions to fifty millions, an extraordinary increase but yet less rapid than that of wealth.

PER CAPITA WEALTH

YEAR	UNITED STATES	NORTH ATLANTIC	NORTH CENTRAL	SOUTH ATLANTIC	SOUTH CENTRAL	WESTERN
1860	\$514	\$528	\$436	\$537	\$598	\$434
1870	780	1243	735	384	334	843
1880	850	1207	932	495	435	1291
1890	1039	1232	1129	579	569	2250

The increase in per capita wealth of the Northern states is the more remarkable because, of the accessions to population, five and a half millions were newly arrived immigrants. The Irish, German, and Scandinavian peasants, who thronged into the North Atlantic ports, made a welcome addition to the labor force, but contributed little capital to the communities in which they settled.

Decline of our Mercantile Marine. — In striking contrast to the development of mining and manufactures, shows the decay of the shipping interest. During the civil conflict United States vessels were fairly driven from the sea by the mischances of war. The Confederate government had no navy and abandoned all hope of breaking the blockade of Southern ports, but half a dozen men-of-war, purchased in England, managed to effect great damage on American commerce. The Florida and the Alabama scoured the high seas, seeking merchantmen flying the Federal flag. Since these were usually wooden sailing vessels and unarmed, they

Marvin,
Ch. XIV.
Bates,
Ch. IX.
U. S. Census,
1880,
VIII, 96-130.
Report of
Joseph
Nimmo,
41st Cong.,
2d Session,
Ex. Docs.
III.

fell easy prey to the Confederate cruisers. The loss in ships sunk, burned, or captured amounted to 110,000 tons. Abnormal insurance charges and the difficulty of securing cargoes for vessels liable to seizure, rendered ocean commerce unprofitable. American ships were held in port or made over to the government or "sold foreign" at ruinous sacrifice. The ships purchased by the government were converted into transports or cruisers, and did effective work throughout the war. More than one half of the suddenly improvised Federal navy was made up of armed merchantmen. Four fifths of the officers and five sixths of the men came directly from the merchant service.

The falling off in United States vessels registered for foreign trade amounted to one million tons. The proportion of foreign commerce accruing to American vessels declined from 66 per cent in 1860 to 27 per cent in 1865. The transatlantic trade of 1866 exceeded that of any previous year, and our merchants bravely strove to recover their due share of freight; but it was a losing battle. They came into competition with the subsidized lines of England. In vain they petitioned for government aid. Congress awarded a mail subsidy of \$15,000 to a line running from New York to Brazil, and another of \$500,000 to the Pacific Mail steamers, but no such support was vouchsafed to entrepreneurs in the Atlantic service.

American shipbuilders, too, labored under heavy disadvantages. The excise tax of 2 per cent on the hulls of vessels and of from 3 to 5 per cent on marine engines was repealed in 1868, but tariff duties on cordage, iron, and copper, ranging from 30 to 45 per cent, were allowed to stand. A congressional committee, appointed (1870) to investigate the shipping industry, recommended the repeal of the duties on shipbuilders' raw materials. Copper sheathing, iron rods and bars, bolts, etc., "necessary for the construction of vessels built in the United States for the foreign trade" were accordingly admitted free under the tariff act of 1872. The duties were, however, reimposed in 1875, because of protest from the men who had iron and copper to sell. With the

Cong. Globe,
1864,
2117-2118,
2372-2375,
2283.

Rept. of
Lynch Com-
mittee,
41st Cong.,
2d Session,
House Report
No. 28.

Wells,
516-522.

Bates,
Ch. XI.

passing of the wooden sailing vessel, our preëminence in shipbuilding was lost. The new steamers could be built more economically in England, where fuel, iron, and labor were comparatively cheap. There was some agitation for the admission of foreign built ships to our registry, but the proposition was defeated. The shipbuilders protested against the reversal of a policy that had held for eighty years. Handicapped by these permanent disadvantages, our ocean marine steadily declined.

The war that had proved so disastrous to our ocean marine stimulated the growth of the coastwise service. The transportation of troops and provisions gave profitable employment, and ocean steamers were temporarily converted to this trade. The tonnage of coasting craft rose from 2,599,319 in 1860 to 3,353,657 in 1865. The exploitation of the lumber lands and mineral deposits of the Lake Superior region brought into requisition freight and passenger steamers of size and speed approaching the sea-going models. The traffic of the Great Lakes began to rival the transatlantic trade in dimensions and value, and offered some compensation for the vantage lost on the high seas.

The Homestead Act.—Agitation for the free distribution of the public lands had been persistent and unflagging for twenty years before the war. The Free Soil Democracy had led the movement with its proposal that "the soil of our extensive domain be kept free for the hardy pioneers of our own land and the oppressed and banished of other lands seeking homes of comfort and fields of enterprise in the New World." Whigs, like Daniel Webster; humanitarians, like Horace Greeley; abolitionists, like Gerrit Smith; labor reformers, like George Henry Evans, were not less ardent supporters of a democratic land policy. In 1845 Andrew Johnson of Tennessee had brought forward in the House of Representatives a resolution in favor of giving every homeless citizen a portion of the national domain. Senator Stephen A. Douglas introduced a bill to the same effect in 1849. Several times a homestead bill passed the House of Representatives, only to be defeated in the Senate. The

President's
Message,
41st Cong.,
2d Session,
Ex. Doc.
115.

Cong.
Record,
VIII, Pt. III,
Appendix,
23-26.

Donaldson,
332-350.

Sato,
428-439.

Powderly,
Thirty Years
of Labor,
Ch. VIII.

Cong. Globe,
1850,
1149-1150.

Cong. Globe,
1849-1850,
75, 87.

Cong. Globe,
1854,
Appendix,
207-209.

negative vote came largely from the Southern states, which then held the balance of power in the upper house. Finally (June 19, 1860), after lengthy conferences, Senate and House agreed to concur in a bill providing that any citizen of the United States, being the head of a family, might take up a quarter section of unappropriated public land, settle thereon, and secure title after proved residence of five years. The Senate's contention, that a cash payment of twenty-five cents an acre be required, was accepted by the House with considerable demur. Even so, the bill was vetoed by President Buchanan. In a message to Congress the President justified this action as follows. The free distribution of public lands would be unjust to the "old settlers," who had paid \$1.25 per acre for their lands, and whose "labors in building roads, schools, and market towns had increased the value of the adjacent and unoccupied lands now to be given out at 25 cents an acre." It could confer no benefits on artisans and laborers of factory towns, who "cannot, even by emigrating to the West, take advantage of the provisions of this bill without entering upon a new occupation, for which their habits of life have rendered them unfit." It would operate to the disadvantage of the older states, whose supply of public lands was exhausted, and whose population would be drawn off by the prospect of cheap lands farther west. "The offer of free farms would probably have a powerful effect in encouraging emigration, especially from states like Illinois, Tennessee, and Kentucky to the west of the Mississippi, and could not fail to reduce the price of property within their limits." The President farther raised the question whether it was "expedient to proclaim to all nations of the earth that whoever shall arrive in this country from a foreign shore, and declare his intention to become a citizen, shall receive a farm of 160 acres at a cost of 25 or 20 cents per acre, if he will only reside on it and cultivate it." The loss to the government in the way of revenue would, moreover, be considerable. The annual income from this source (\$4,000,000) would be reduced to \$1,000,000. "The people of the United States have advanced with steady but rapid strides to their present

condition of power and prosperity. They have been guided in their progress by the fixed principle of protecting the equal rights of all, whether they be rich or poor. No agrarian sentiment has ever prevailed among them. The honest poor man, by frugality and industry can, in any part of our country, acquire a competence for himself and his family, and in doing this he feels that he eats the bread of independence. He desires no charity, either from the government or from his neighbors. This bill, which proposes to give him land, at an almost nominal price, out of the property of the government, will go far to demoralize the people, and repress this noble spirit of independence. It may introduce among us those pernicious social theories which have proved so disastrous in other countries."

When the slave states had withdrawn their representatives from the Federal legislature, the Homestead Bill passed both Houses without opposition, and received the signature of Abraham Lincoln, May 20, 1862. The acreage charge did not appear in the final enactment, and a special concession was made to Union soldiers in that they were allowed to deduct from the five years' occupancy required to establish title, the term of army service. The Timber Culture Act of 1873-1874 was intended to open to settlement the semi-arid plains west of the ninety-eighth meridian. A quarter section might be taken up on condition of planting a fourth of the area in trees. Title was granted when the settler could prove that his trees had eight years' growth. Homestead entries were inaugurated immediately, and proved very popular. Quarter section farms to the amount of twenty-seven million acres were claimed between 1867 and 1874. The revenue from land sales declined as Buchanan had foreseen, but the loss was soon made good in the enlarged taxpaying capacity of the West. To some extent population was drawn from the East, and the value of agricultural land in the seaboard states depreciated. The center of population, of wealth, and of manufactures moved steadily west. The opportunity to get possession of land without money and without price attracted hundreds of thousands of Old World peasants to

Cong. Globe,
1861-1862,
40, 132-139,
909-910.

Donaldson,
360.

Chart,
Population
of U. S.,
p. 340.

the United States. Between 1860 and 1870, 800,000 Germans and 456,000 Irish came to America. The inflow augmented from year to year, until, in 1873, the annual influx attained the startling total of 460,000.

The democratic land policy was far from prejudicial to the artisan class, and operatives in the East, young men at least, were free to choose between a farm and a trade. Surplus labor was drained off to the West, and the rate of wages was readily maintained at the standard of living set by the self-employed farmer. Speculation in land and land monopoly were rendered difficult, since no man might take up more than two quarter sections — one of arable land and one of timber land. The average size of holdings declined from 199 acres in 1860 to 153 in 1870, and 134 in 1880, and intensive farming became more general.

The Transcontinental Railways. — The project for a railway that should span the Cordilleran Range, make connection between the Mississippi Valley and the Pacific ports, and thus serve as channel for the westward movement of population as well as facilitate trade with the Pacific ports, with China, and the Far East, had been agitating the minds of men for twenty years before it was actually undertaken. The scheme was first brought before Congress in a memorial drawn up by Asa Whitney in 1845. This far-seeing New York merchant proposed to build a road from Lake Michigan to the mouth of the Columbia River, and petitioned for a grant of land sixty miles wide along the entire route. It was to be assigned in ten-mile sections as construction proceeded, and thereafter sold by the railway company to settlers as fast as they arrived. "It is proposed to establish an entirely new system of settlement, on which the hopes of success are based, and upon which all depend. The settler on the line of the road would, as soon as his house or cabin were up and a crop in, find employment to grade the road; the next season, when his crop will have ripened, there would be a market for it at his door, by those in the same situation as himself the season before; if any surplus, he would have the road at low tolls to take it to market; and if he had

Davis,
The Union
Pacific Rail-
way,
Ch. I-III.

Smalley,
Northern
Pacific
Railroad,
Ch. VII, X.

Whitney,
Project for a
Railroad to
the Pacific.

in the first instance paid for his land, the money would go back, either directly or indirectly, for labor and materials for the work. So that in one year the settler would have his home, with settlement and civilization surrounding, a demand for his labor, a market at his door for his produce, a railroad to communicate with civilization and markets, without having cost one dollar. And the settler who might not have means in money to purchase land, his labor on the road and a first crop would give him that means, and he too would in one year have his home with the same advantages and equally independent."

Whitney estimated the cost of construction at \$50,000,000, and this sum, together with running expenses for the initial years, he expected to realize from land sales. The road was to be a national highway, operated in the public interest. The rates charged for transportation were to be merely sufficient to cover current expenses. Whitney advocated his patriotic project on the platform and in the press through the length and breadth of the country. Modifications in his plan were made from time to time with a view to securing the support of influential cities. His first route was drawn from Milwaukee through Prairie du Chien, Wisconsin, to Portland, Oregon; the second connected Prairie du Chien with Tacoma; the third, in deference to Southern interests, was to run from Memphis through New Mexico, to San Francisco. Bills embodying these and other routes came before Congress session after session in the last decade before the Civil War, but sectional feeling ran high. Southern representatives advocated a line from Charleston through Vicksburg to San Diego. The miners of California and Nevada clamored for a central route via the Salt Lake Trail from St. Louis to Sacramento. Every party and all public men declared in favor of a transcontinental railroad; but local interests were strong enough to defeat each specific measure until the Republican party came into full control of the national government.

By enactments of 1862 and 1864 Congress chartered the Union Pacific Railroad Company and authorized the con-

De Bow,
II, 486-519.

Davis,
Ch. IV.

Smalley,
Ch. XII,
XIII.

struction of a road from Omaha directly west to Ogden, the proposed point of junction with the Central Pacific Railway, already incorporated by the state of California. Rival interests on the Missouri River were provided for by branch roads to Sioux City, St. Joseph, Leavenworth, and Kansas City; but the trunk line made direct connection with Chicago and the railway systems centering in New York and Boston. The incorporated companies were given the right of way along the projected route (private property being subject to condemnation for this use), together with such lands as might be needed for stations, workshops, etc., and the privilege of taking timber, stone, and earth, as might be required for the track. To defray the costs of construction Congress offered liberal grants from the public domain. The railroad lands were assigned, as construction proceeded, in ten alternate sections within a tract twenty miles in width, on each side the roadbed. Grants previously made and squatters' claims were, of course, excepted. Thus within forty-one days after the passage of the Homestead Act, Congress authorized the giving away of 23,500,000 acres of the public domain to private corporations, and inaugurated a new phase of land monopoly. The reservation of alternate sections for distribution to actual settlers was intended to secure the people's rights, but the ultimate effect was to raise the value of the railroad lands, which were usually withheld from sale.

Donaldson,
261-273.

Congress farther aided this vast transportation enterprise by offering to guarantee the bonds issued by the companies to the amount of \$65,000,000. The bonds were to run for thirty years at six per cent, and constituted a first mortgage lien on the railroad property. The first year's interest was to be paid from the United States treasury, and the government stood sponsor for subsequent interest charges, as well as for the payment of the principal. Thus endorsed, the bonds were readily disposed of at public sale. Construction proceeded rapidly. Irishmen were imported as laborers on the eastern divisions of the road. Chinese coolies built the greater part of the Central Pacific. The entire line was

operation by 1869. The initial passenger tariff of ten cents a mile was so high as to be well-nigh prohibitory. Congress had reserved the right to regulate fares and freight rates as soon as the net earnings should exceed ten per cent on the investment, but the rates were reduced by the management long before this happy consummation was attained. Since the Union and Central Pacific companies have never been able to cancel their obligations to the government, this vast transportation system was actually constructed at public expense. The first transcontinental railway was a national enterprise in comparison with which the Cumberland Road sinks into insignificance.

With the close of the war and the disbanding of the armies, the demand for transportation facilities to the new West grew even more urgent. In the decade following the chartering of the Union Pacific, the bulk of railroad building was west of the Mississippi River. In the first thirty years of railroad history, construction had followed on the heels of trade, and routes were determined by prospect of profits. The Union Pacific Railroad inaugurated a new epoch. If the West was to be developed by free labor, railroads must be pushed in advance of population, in advance of the organization of state governments. The costs of building were enormous and the traffic light in proportion to distance covered. These great undertakings could only be set on foot by aid of the United States government. Within the ten years following the grant to the Union Pacific, 15,000,000 acres of public land had been assigned to various railroad enterprises, always on condition of completing the roadway within a specified term. Several of the grants were forfeited by noncompliance, but the total land secured by railroad corporations amounted to 102,000,000 acres, nearly half the sum total of the farm area granted under the Homestead Act.

The sacrifices, economic and social, involved in the building of our transcontinental railways have been heavy, but the gains to the settlers and to the country at large have been beyond computation. Home seekers make their way

Sanborn,
Congressional Grants
of Land in
Aid of Rail-
ways,
Ch. V, VI,
VII, VIII.

Powell,
Lands of the
Arid Region,
Ch. X.

Martin,
The Grange
Movement,
Pt. I.

to new lands at far less cost in time and money and in physical wear and tear, than in the days of the prairie schooner and the wayside camp. The great trunk lines render it possible to sell Western products to Eastern markets. Washington and Oregon send their wheat and lumber to the Atlantic coast. The manufacturing sections are brought within reach of the mining towns and lumber camps of the Rockies, and of the cattle, grain, and fruit ranches of California. Oriental markets are opened up to the cotton planters of the South, to the cotton manufacturers of New England. Whitney's dream is fulfilled. "Then the drills and sheetings of Connecticut, Rhode Island and Massachusetts and other manufactures of the United States, may be transported to China in thirty days; and the teas and rich silks of China, in exchange, come back to New Orleans, to Charleston, to Washington, to Baltimore, to Philadelphia, New York and to Boston in thirty days more."

Burton,
286-289.

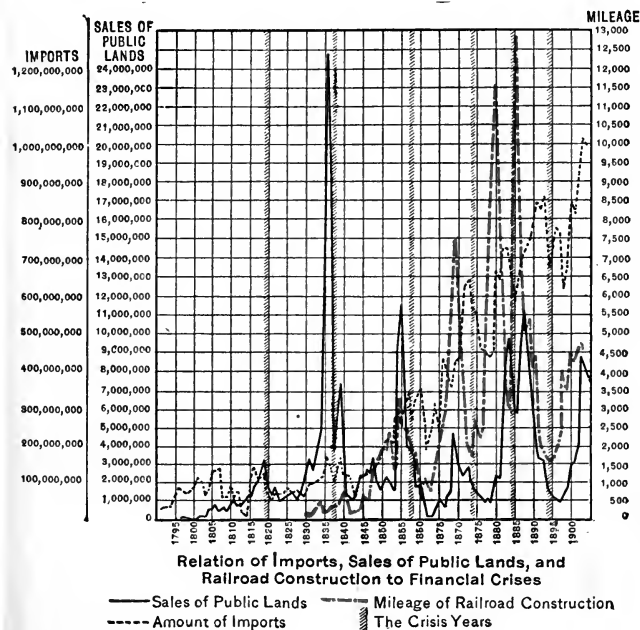
Wright,
Industrial
Depressions.
60-64.

U. S. Census,
1900,
IX, 754.

The Crisis of 1873.—This epoch of artificial prosperity was followed by a business panic and industrial depression, exceeding in extent and severity any the country had yet experienced. Every line of business had felt the stimulus of war tariffs and war prices. In anticipation of unusual profits, entrepreneurs borrowed heavily and at high rates of interest to develop iron works and clothing factories, flour mills and abattoirs, mines and oil refineries, without much regard to prospects for disposing of the goods. The inevitable consequences of this speculative spirit were overproduction in every branch of industry, a general glut of the market, and a ruinous decline in prices. The reduction of import duties in 1872, and the menace of foreign competition, was sufficient to capsize some of these overloaded enterprises. Unable to market their stock at paying prices, many business firms failed to meet their obligations and went into bankruptcy. The influence of industrial depression is seen in statistics of manufactures for the decade.

Another form of speculative mania was represented in Western railroads. The liberal policy of the government gave the projectors basis on which to solicit subscription

to stocks and bonds that could bring no return to the purchaser. The sums invested in railway construction during the decade following on the chartering of the Union Pacific aggregated more than a billion dollars. The railroads built



between 1867 and 1873, exceeded the total mileage of 1859. The additions made in 1871 amounted to double the mileage built in 1857. An undue proportion of the available capital of the country was sunk in roadbed and rolling stock. Unable to meet the interest on the bonded debt, much less provide for the payment of the principal, these optimistic transportation schemes were forced into bankruptcy.

The Homestead Act contributed its full share to the craze for investment. The pioneer farmers, eager to improve their little properties, borrowed from Eastern capi-

talists, mortgaging their lands as security. They, no less than the railroad companies, committed the mistake of sinking in improvements more money than they could make good out of surplus products for years to come. The far-away creditor was fain to foreclose the mortgage and take the land in lieu of payment — an asset that could not readily be converted into cash. A Kansas mortgage became the synonym for a losing investment. The money resources of the business world were farther strained by disastrous fires and the rebuilding of Chicago (1871) and of Boston (1872).

For two years preceding the crisis, money was scarce and the rates of interest high, notably in the autumn, when farm products were being moved to market. In October, 1872, there was a deficiency of more than a million dollars in the bank reserves of New York City. In September of 1873 the financiers of Wall Street were paralyzed by a series of colossal failures. The leading bankers of the city had made unwarrantable advances to various railroad enterprises and were forced to close their doors against depositors. The Brooklyn Trust Company was heavily involved with the New Haven and Willimantic Railroad; the Mercantile Warehouse and Security Company with the Missouri, Kansas and Texas; Kenyon Cox and Company with the Canada Southern; Fisk and Hatch with the Vanderbilt roads; Jay Cooke and Company with the Northern Pacific. The assignment of Jay Cooke, the leading financier of that day, was the signal for a general collapse. More than five thousand failures occurred in the panic year with a loss of \$228,500,000. The number of bankruptcies steadily increased, till in 1878 the appalling total of 10,478 was reached. The industrial depression following on the Wall Street panic was even more fatal to productive industries. The sum of the failures of these six years aggregated 47,000 and the money loss, \$1,200,909,754. It was estimated that three million workmen were thrown out of employment by the closing down of business enterprises. The consequent curtailment in the demand for goods increased the difficulty of the situation. Gradually, however, the weight of depression wa

Sherman,
I, 488-506.

Smalley,
Ch. XX,
XXI, XXV,
XXVI.

thrown off. As railroads and farms began to return some revenue, mines and mills were reopened. The unemployed found work and were once more able to earn and spend. With the revival of the market for goods, manufacturers took heart and set their engines in motion.

The Labor Movement. — The engrossing problems entailed by the Civil War had diverted attention from the interests of free labor. The workingmen of the North threw themselves heart and soul into the conflict with the slave power and gladly enlisted for service. The drafting of a million men into the army reduced the supply of labor to the point where there was work at good wages for all remaining. When the soldiers returned to industrial life, the labor market was glutted and difficulties ensued. Wages as represented in paper currency had risen rapidly during the war, and the abnormal rates were maintained by concerted resistance to reduction. Industrial conditions were more favorable to organization than ever before. The capacity of factories and workshops had been multiplied, and larger bodies of operatives were massed in one establishment. Machinery had superseded hand labor in well-nigh every field, and the workmen, rendered entirely dependent upon capital for employment, organized in self-defense. The unprecedented accumulation of wealth in the hands of a few captains of industry served to further emphasize the antagonism between master and man. The necessity for collective bargaining was forced home upon employees of every class.

The movement toward union on a national scale was apparent before the close of the war. The Brotherhood of Locomotive Engineers was organized in 1863, the Cigar Makers International Union in 1864, and the International Union of Bricklayers and Masons in the same year. By 1866 some thirty or forty national trade organizations had been set on foot. The principal demands of the Workingmen's party — the abolition of chattel slavery, free distribution of public lands, and a ten-hour day — were accomplished facts. The labor leaders of the post bellum era demanded

Mitchell,
Organized
Labor,
Ch. VIII.

Powderly,
Ch. I.

McNeill,
Ch. V.

Moody,
Land and
Labor,
Ch. VII.

an eight-hour day, protective legislation for women and children employed in factories, the scientific investigation of labor problems, etc.

The new labor movement repudiated both the great political parties as untrustworthy and aimed to affiliate the trade unions in a common endeavor to better working conditions, not for their own members merely, but for the unskilled workers as well. A National Labor Union Convention was called at Baltimore in 1866 and was attended by one hundred delegates, representing labor organizations in all the Northern and in three border states. The conventions held at Chicago in 1867 and at New York in 1868 were even more widely representative. The total membership of the workingmen's party was estimated in the latter year at six hundred and forty thousand. This potent constituency sent representatives to several of the state legislatures, and was even able to bring some influence to bear upon the national government. In 1869 Congress passed a bill promising an eight-hour day for all laborers in the employ of the United States. The National Labor Union conventions held at Boston in 1870, and at Philadelphia in 1871, gave evidence of faction and waning strength. At Columbus, Ohio, in 1872, a candidate for the presidency of the United States was nominated, but this proved a fatal mistake. The attempt of a few ambitious leaders to use the organization as a political machine wrecked the undertaking.

North,
Factory Leg-
islation in
New Eng-
land.

Whittelsey,
Labor Legis-
lation in
Mass.

Better success attended the Labor Reform party, which organized in Massachusetts in 1869, fifteen thousand strong. In that same year the General Court of Massachusetts passed a bill providing for the State Bureau of Labor Statistics, the firstfruits of the demand for scientific inquiry into the grievances of the wage earners. In 1874 the first effective limit on the labor of women and children became law in Massachusetts. An act of 1867 had stipulated that no child under ten years of age might be employed in any manufacturing establishment, and that children under fifteen might be employed but sixty hours per week and only so

in case they could show a school certificate ; but there was no adequate provision for enforcement. The laws of 1874 and 1879 limited the labor of women as well as minors to ten hours per day or sixty per week, and provided an efficient inspecting force and appropriate penalties. In 1872 and 1873 the Grand Eight-hour League inaugurated a series of strikes in the interest of a shorter working day. The building trades of New York City won their point, but the majority of the strikers failed. The industrial depression of the years immediately following forced laborers to seek work on any terms.

Powderly,
Ch. XII.

Wages and
Prices,
128-133.

The Farmers' Movement. — During the latter half of the nineteenth century the agricultural population had little in common with the mechanics and operatives of the cities. The farmers were property owners and taxpayers, and naturally conservative. There was no large class of agricultural laborers or cash tenants. Every able-bodied man expected to acquire land, whether by a homestead claim or by the slower process of farming on shares. All that the farmers asked was a fair chance to market their products. Their grievances were the commission charges of the middleman who forwarded their grain to the flour mills at Minneapolis, their cattle to the packing houses at Chicago, and secured the lion's share of the profits on the transaction. The railroads, moreover, whose advent had been heralded with unalloyed satisfaction, began to impose exorbitant freight rates, fixing their tariffs on the principle of charging all the market would bear. The railroad land, sold in extensive tracts to the highest bidder, came into the hands of capitalists, who introduced machinery and large scale production and secured special favors in the freighting of their products. The tariff duties, levied primarily in the interest of manufacturers, added to the cost of groceries, clothing, implements, and building materials, while curtailing the European market for agricultural produce. Only the wool growers got a compensating advantage in the way of enhanced prices. Most of the Western farmers were heavily in debt, and the contraction of the currency, with the consequent fall in prices,

Rept. Industrial Com-
mission,
VI, 36-143,
225-268.

Adams,
The Granger
Movement.

Moody,
Land and
Labor,
Ch. III.

Elliott,
American
Farms,
94-109.

Peffer,
The Farmer's
Side.

rendered it difficult to meet obligations incurred during the inflation period.

In 1870 the aggrieved farmers began to agitate for remedial legislation. The Patrons of Industry had been organized (1866) to render farming a pleasanter and more remunerative occupation. They had begun with an attempt to reduce expenses by coöperative buying; they now undertook to regulate freight rates, and so to reduce the cost of marketing their products. The Grange movement (so called from the grange or local organization) was strong in the upper Mississippi Valley. In Illinois, Iowa, Minnesota, and Wisconsin the legislatures were induced to fix maximum rates for transportation charges. These laws were bitterly contested by the railway companies and finally repealed, but the movement was not without effect. The extent to which a railroad determines the industrial development of the region served was brought to public attention, and, since the granger laws were declared constitutional by the Supreme Court, a precedent for state control was clearly established.

The Industrial Transformation of the South

For the North, the Civil War had inaugurated a new era of material expansion; for Southern industry, it meant complete prostration. The Confederacy, being the scene of conflict, suffered incalculably more than the loyal states. Towns were burned, bridges wrecked, railroad tracks torn up, plantations fallen to ruin. Cotton, the only marketable crop, had been used for breastworks, confiscated, or rendered unsalable by exposure. The wealthy were impoverished by the collapse of Confederate currency and Confederate bonds; the poor were destitute. One third the adult males of the white population had fallen in battle or returned home invalided and incapacitated for work. The proportion of breadwinners was seriously reduced. The labor reliance of the old South was lost beyond recovery. Land had depreciated to half its ante bellum value. Capital

Martin,
Pt. VI.

Hadley,
Railroad
Transporta-
tion,
129-139.

Adams,
Railroads,
123-132.

Detrick,
Effects of the
Granger
Acts.

Schwab,
Ch. XII.

Garner,
Reconstruc-
tion in Mis-
sissippi,
Ch. IV.

Hammond,
127.

with which to make good the devastations of war was not to be found south of Mason and Dixon's line.

The disasters of war and reconstruction did not fall on the white population alone. The emancipated blacks suffered for want of food, clothing, and shelter. Thousands of negroes perished of hunger and disease. There is reason to believe that the loss of life was four times greater for blacks than for whites. The Freedmen's Bureau did much to relieve this appalling destitution and to set the freedmen on the way to self-support; but it was obliged to work through the military organization. Army officers, however well intentioned, are hardly fitted to deal with a complicated economic situation.

The Labor Problem.—The twenty years following the downfall of the Confederacy witnessed a change in the industrial order of the South that may fairly be termed an agricultural revolution. With emancipation, three million laborers passed immediately from a state of dependence and rigid surveillance to absolute freedom. The economic tie between master and slave was suddenly broken. The one was forced to seek laborers, and the other employment, in the open market. Both were unaccustomed to the wage relation, and both found difficulty in estimating in terms of money the services that had hitherto been rendered for means of subsistence. The freedmen, eager to realize the blessings of liberty and esteeming labor a badge of slavery, wandered about the country in search of pleasure, and rapidly gravitated to the towns. They worked only under the compulsion of absolute want, and pay day was usually followed by a week of idleness.

The planters, handicapped by the losses of the war and unable to command ready money, advanced rations to their laborers but postponed the payment of wages till the crops were in. Even then they sometimes failed to make over the money due, and the negroes grew suspicious. The unsatisfactoriness of the hiring system is evidenced by the decline in wage rates from \$137.50 per year in 1860 to \$129 in 1867, and \$100 in 1868. The plantation system,

Du Bois,
Souls of Black Folk,
Ch. II.

Garner,
Ch. XVI.

Fleming,
Industrial System in Alabama after the Civil War.

Hammond,
Ch. IV.

profitable only with gangs of cheap laborers subject to absolute control, broke down under these conditions.

Du Bois,
The Negro
Farmer,
79-81.

The attempt to grow cotton with borrowed capital and wage labor having failed, landowners began to lease estates on shares. Tracts of from forty to eighty acres were rented to the more reliable negroes on varying conditions. If the landlord furnished seed, mule, plow, and rations, he was entitled to two thirds the crop. If, on the other hand, the renter supplied food, he kept half the crop. If he fed himself and owned stock and implements, he kept two thirds the cotton grown. A negro who acquired a reputation for intelligence and industry, might secure land at a stipulated rental in cotton or money and thus be free from supervision. In a series of good seasons, with fair prices, such a tenant might clear enough to buy the land. Planters were ready to sell on easy terms considerable portions of their heavily encumbered estates. By 1874, within ten years of emancipation, the negro farmers of Georgia had thus acquired 338,769 acres.

Du Bois,
Negro Land-
holder of
Georgia,
665.

The poor whites, too, made good use of this chance to get possession of land and so secure opportunity for self-support. The necessities of planters combined with the ambition of landless laborers to break up the great estates, and the old-time plantations crumbled away into little farms. The tendency is evident in the statistics of farm acreage.

AVERAGE AREA IN ACRES OF SOUTHERN HOLDINGS

YEAR	ALL SOUTHERN STATES	SOUTH ATLANTIC	SOUTH CENTRAL
1860	335.4	352.8	321.3
1870	214.2	241.1	194.4
1880	153.4	157.4	150.6
1890	139.7	133.6	144.0
1900	138.2	108.4	155.4



HAULING FERTILIZER ON TO DEAD LANDS, CALHOUN, ALABAMA



THRESHING WHEAT WITH TRACTION ENGINE, NORTH DAKOTA



The reconstruction of agriculture was a slow and difficult process, but pluck and patience have finally succeeded in rendering the South more productive under free than under slave labor.

CROP STATISTICS

YEAR	COTTON	SUGAR	RICE
	bales	tons	lbs.
1860	5,740,000	193,040	187,167,000
1870	3,000,000	45,000	73,635,000
1880	5,750,000	112,000	110,131,000
1890	7,450,000	136,000	128,591,000
1900	9,500,000	248,000	283,773,000

Dead lands have been reclaimed by use of fertilizers; waste lands have been brought under cultivation; machinery and scientific methods have been brought to bear. Evidence of the losses of the war period and the gains of the subsequent decades may be gathered from farm statistics.

AVERAGE VALUE OF MACHINERY AND IMPLEMENTS PER ACRE

YEAR	UNITED STATES	NORTH ATLANTIC	NORTH CENTRAL	SOUTH ATLANTIC	SOUTH CENTRAL	WESTERN
1860	\$.60	\$1.21	\$.67	\$.32	\$.52	\$.33
1870	.66	1.43	.89	.22	.30	.48
1880	.76	1.58	1.00	.30	.35	.60
1890	.79	1.86	.98	.36	.37	.64
1900	.90	2.34	1.15	.51	.49	.56

Development of Cotton Manufactures.—The South's advantages for the manufacture of cotton goods had long been realized. There was water power in abundance, free all the year round. The raw material was to be had direct from the cotton gin, with no commissions and transportation charges added. Labor, too, was at hand in ever-increasing numbers. The long dormant energies of the poor whites

Mass. Labor Bulletin, No. 10. Young, American Cotton Industry, 54-99.

U. S. Census,
1900,
IX, 54-57.

might be utilized at last. Capital was secured from the North and from abroad, and the South set upon the textile industry in good earnest. All along the "fall line" cotton mills were built with phenomenal rapidity, and the mountain people were gathered in factory villages. They worked for low wages, for their standard of living was not high, and fuel, food, and shelter cost little. There was no prejudice against the employment of women and children and no demand for shorter hours or prohibition of night work. Little could be accomplished in the war decade, but between 1870 and 1880 great strides were made. South Carolina doubled the capacity of her mills and the value of her output; North Carolina and Georgia were not far behind. By 1880 sixteen thousand people found employment in the Southern cotton mills, and their product was nearly one fourth that of New England. It became apparent that the white laborers had profited more than the blacks from the edict of emancipation.

SOUTHERN COTTON FACTORIES

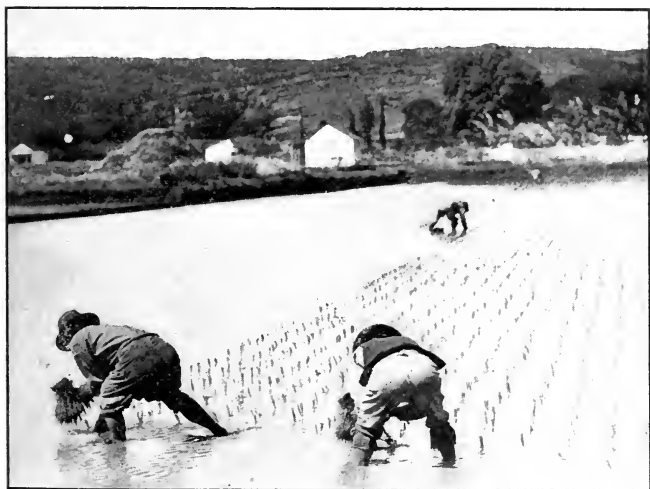
YEAR	SPINDLES	EMPLOYEES	VALUE OF PRODUCT
1860	298,551	10,152	\$8,460,337
1870	327,871	10,173	11,372,186
1880	542,048	16,741	16,356,598
1890	1,554,000	36,415	41,513,711
1900	4,299,988	97,559	95,002,059

Stubbs,
Sugar,
79-101.

Houston,
Cotton,
113-128.

Shelfer,
Tobacco,
129-144.

Other latent resources were developed by Northern capital and Northern ~~entrepreneurs~~. The coal and iron deposits of the Appalachian range were exploited with modern machinery. The phosphate beds of Florida and South Carolina and Tennessee were opened up, and the preparation of fertilizers became an important industry. The sandy levels of Florida were covered with fruit orchards. The bayou lands of Louisiana and Texas were drained and irrigated and converted into more profitable rice fields than those



RICE FIELDS IN THE HAWAIIAN ISLANDS

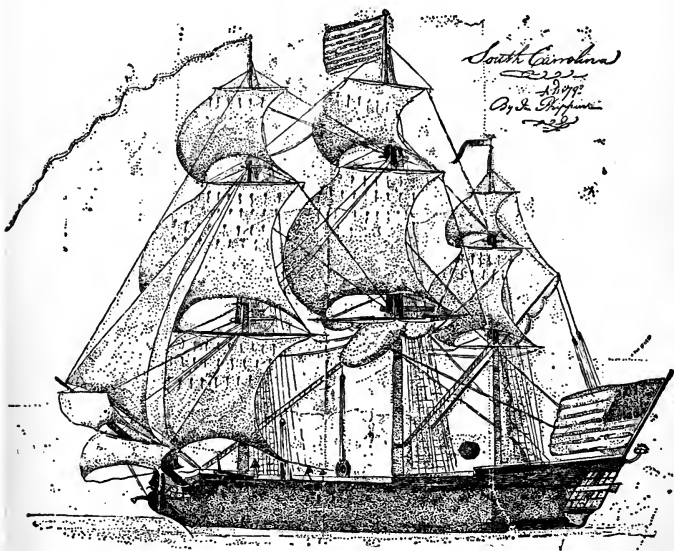
Chinese laborers.



of South Carolina. The salt islands of the Gulf coast were made to furnish this necessity at far less cost than the wells of Syracuse. Enterprising lumber merchants began to fell trees untouched since De Soto's day. The pine barrens, once cleared, made excellent cattle ranches, for the native grasses were green all the year round, and the beasts had no need of shelter. The wastes of the ante bellum period were now converted to marketable goods. Cotton seed was ground and pressed and transmuted into a dozen valuable products, — oils and cattle feed, fertilizers, cotton batting, and paper. The very driftwood of the river bottoms was made to furnish turpentine and tar, lamp black and creosote, alcohol and acetic acid.

Edmunds,
Utilization of
Wastes,
162-176.
Knapp,
Rice,
102-112.

U. S. Census,
1900,
X, 740-742.



AN OLD TIME CLIPPER

CHAPTER IX

CONTEMPORARY PROBLEMS

The Protective Policy

NOTWITHSTANDING reductions in excise and customs duties made immediately after the war, the national revenues increased from year to year, until in 1883 the Treasury reported a surplus of \$145,600,000. This was the inevitable result of the growth in population and in the consequent demand for the commodities subject to tax. The receipts from customs duties on sugar, silks, woolens, and iron manufactures were rapidly augmenting, as also from the excises on liquors and manufactured tobacco.

The surplus revenue could not be applied to the redemption of the outstanding bills of credit for fear of giving umbrage to the Greenback party, nor to the extinction of the government bonds without curtailing the circulation of the national banks. Financiers recommended the farther reduction of Federal taxes, and this was seriously undertaken in 1883. The more obnoxious of the remaining excise taxes were repealed, *e.g.* those on matches, patent medicines, and perfumeries, savings bank deposits and bank checks, and the charges on chewing and smoking tobacco were reduced by half. This measure relieved the specified industries of a considerable burden and met with general approval; not so the attempt to reduce the customs duties. A Tariff Commission, appointed in 1882, submitted an elaborate report recommending general reductions of twenty and twenty-five per cent on raw materials and articles of necessary consumption. The Republican majority in the House of Representatives refused to inaugurate action, and the measure was

Dewey,
415-429.

Taussig,
Tariff Hist.
of the U.S.,
230-250.

Rept. of the
Tariff Com-
mission,
1882,
1681-1710.

finally introduced in the Senate, as an amendment to the Internal Revenue Bill sent up from the House. The amendment was only accepted by the latter body after considerable modification in the interest of protection had been admitted. The duties on coarse woollens and cottons were reduced, since these manufactures were not menaced by foreign competition, but charges on the finer grades were actually raised. Iron and steel manufactures were taxed not quite so heavily as in 1875, but the duty on pig iron was reduced in proportion. The argument that American laborers must be protected against the "pauper labor" of Europe by high import duties on foreign products was brought before the Commission by employers as well as by representatives of trade unions. American workmen were receiving on an average one and one half times the English wage, twice that paid in Belgium, three times the rate customary in France, Italy, Germany, and Spain. The counter argument that American prices raised the cost of living to two and three times the European level, and that the enhanced profits accruing from these prices were not necessarily applied to wages, did not have much influence with the Commission. The interest of the agricultural sections was steadily kept in mind. The import duties on beef, pork, lard, cheese, butter, wheat, corn, and oats were maintained. Since these commodities were not imported except from Nova Scotia, the New England farmers alone realized any benefit from such duties. The wool growers of the Middle West were outraged by a repeal of the ad valorem duties on imported wools.

The financial panic of 1884 was, nevertheless, attributed to this very moderate abatement in the protection accorded to manufactures. It would be difficult to prove that factory or mining interests were seriously affected. The crisis originated in Wall Street in the failure of four large banking firms. The collapse of the Second National, the Marine, and the Metropolitan Banks within one disastrous week was due to no general depression, but to dishonest management and unwarranted speculation. The unusual stringency in the money market was occasioned by the displacement of

Sherman,
II,
849-854.

Rept. of
Tariff Com.,
1882,
339-344, 431-
432, 549, 603-
612, 763-764,
838, 872,
887-889,
1053-1054,
1533, 1534,
1686-1688,
2035-2036,
2313-2333.

Rept. Mass.
Bureau of
Labor Stat.,
1884.

Noyes,
Thirty Years
of Amer.
Finance,
94-103.

Sherman,
II, 879-881.

Finance
Rept.,
1884,
157-159.

Wright,
Industrial
Depressions,
65-90.

U.S. Statisti-
cal Abstract,
1904,
376.

President's
Message,
Cong.
Record,
XIX, Pt. I,
9-II.

gold by the newly coined silver, and by the sinking of vast sums in western farms and railroads. The transcontinental roads had not yet attained a paying basis, and the interests of agriculture were threatened by falling prices. Import duties brought no benefit to the farmers of the interior, since their domestic market was overstocked with produce. The wheat crop of 1884 was the largest that had ever been harvested, and the price fell to sixty-four cents a bushel, half that obtained three years before. This price did not cover the cost of production, and many farmers were ruined. The inability of the agriculturists to meet their obligations to Eastern capitalists and to purchase the products of Eastern mills and workshops, extended and prolonged the industrial depression. The glut of the market became general.

When the Democrats came into control of the national government (1884), several half-hearted attempts at tariff revision were made (*e.g.* Morrison of Illinois urged a twenty per cent horizontal reduction and free raw materials); but the party as a whole was not committed to the policy of revision. The issue was definitely formulated by President Cleveland in his annual message of December, 1887. The excess revenue had mounted to more than \$100,000,000 a year. The President recommended that customs duties be reduced, not arbitrarily and by a sweeping horizontal cut, but with due regard to the business interests involved. Established industries should not suddenly be deprived of advantages on which calculations of success had been based. The welfare of mechanics and operatives must be kept in mind. Tariff revision should aim to reduce the cost of living without curtailing the opportunity for employment or forcing any reduction of wages. The interests of farmers and farm laborers were even more weighty, since nearly half the total population was represented in this class. Unprotected by import duties, the prices of most farm products were conditioned on the foreign market, and this must not be jeopardized by discriminating tariff schedules.

The surplus and the tariff were the main questions at issue in the campaign of 1888. The result of that election was

an unprecedented victory for the Republican party. Accounts may be balanced as effectually by increasing expenditure as by reducing revenue. The former expedient would involve the party in no embarrassing antagonisms, while it afforded opportunity to strengthen political allegiance. Congress, accordingly, extended the pension list to the point where the annual appropriation on this account would exhaust the \$100,000,000 surplus. The excess revenues thus disposed of, the question of tariff revision was taken up. In May, 1890, the Committee on Ways and Means (William McKinley, chairman) reported a bill proposing a general increase of duties. The measure was adopted in House and Senate by a strict party vote. Only three Republicans, representatives of the farming interest, voted against the bill. Higher duties were imposed on the finer grades of cottons and woollens, on iron and steel, glass manufactures, etc., but the rates on raw materials were not reduced. A serious effort was made to extend the benefits of protection to farm products. The war duties on wool were restored; heavy imposts were laid on eggs, potatoes, beans, barley, wheat, corn, tobacco, flax, and hemp. The tobacco growers realized some advantage from the exclusion of the high grade leaf from Cuba and Sumatra, but the grain growers were unaffected, since no cereals were imported. James G. Blaine asserted, and truly: "There is not a section or line in the entire bill that will open the market for another bushel of wheat or another barrel of pork." There was, on the other hand, reason to fear that our exclusive policy might seriously curtail the foreign market for our agricultural produce.

In the hope of inducing foreign nations to abate their retaliatory tariffs, Blaine urged upon Congress and finally secured the so-called reciprocity clause of the McKinley Act. The President of the United States was empowered to restore former import duties on sugar, molasses, tea, coffee, and hides in case of any country whose import charges on our produce (agricultural or otherwise) he might deem to be unreasonable and unjust. The immediate result of this threat was the negotiation of trade agreements

Taussig,
Tariff Hist.
of U.S.,
251-283.

Blaine,
Reciprocity
Letter.
*51st Cong.,
1st Session,
Sen. Ex.
Doc. No. 158.*

Ford,
Reciprocity
under the
Tariff Act of
1890.

Laughlin
and Willis,
Reciprocity,
Ch. VI, VII.

Griffin,
List of Refer-
ences on
Reciprocity.

with Brazil, San Domingo, Cuba, Porto Rico, Guatemala, Salvador, British Guiana, Nicaragua, and Honduras. Of European nations, Austria-Hungary and the German Empire alone accepted our offer of reciprocal commercial advantage.

The McKinley Act is notable for the appearance of certain business combinations as influential factors in the determination of duties. The binding twine trust, for example, requested a duty of two and a half cents a pound on its product. The tax was protested by the farmers of Kansas and the West, who were using great quantities of twine for binding sheaves. Their representatives refused to vote for the bill unless binding twine was placed on the free list. This conflict of interest was compromised, and the duty was fixed at seven tenths of a cent per pound. The American Sugar Refining Company urged that a differential of profit be secured their industry by increase of the duty on refined sugar or by the repeal of the tax on their raw material. The former device was protested by consumers, since sugar had become a necessity, even to the poor; the latter was protested by the cane planters of Louisiana, and the beet farmers of the Middle West. The duty on refined sugar was reduced from three and a half cents to one half a cent a pound, while raw sugar was admitted free. Full compensation was accorded domestic producers in a bounty of two cents a pound on all sugars grown in the United States. The only loser in this bargain was the government. Since the bounty charge amounted to \$6,000,000 per year and the remission of the duty cut down the annual revenue by \$55,000,000, the concession to the sugar trust cost the Treasury dear. The annual surplus was speedily converted into a deficit.

Census,
1900,
VI, 452-460;
IX, 545-555.

Aldrich
Rept.,
Wholesale
Wages,
Prices and
Transporta-
tion,
I, 8-14.

The McKinley Act proved highly unpopular. Prices and cost of living increased with little compensating advance in wages. The farmers found no improvement in the market for their products. The price of wheat fell from eighty-four cents a bushel in 1890 to forty-nine cents in 1894. Prices of corn, oats, rye, and barley, declined in the same proportion. The woolen manufacturers complained that the protection given them did not offset the enhanced cost of their raw materials.

The tariff was the dominant issue in the campaign of 1892. The Democrats won the election, and Cleveland was returned to the presidency. He immediately intrusted Wilson of West Virginia with the task of devising a tariff schedule that should embody the Democratic doctrine of free raw materials and moderate ad valorem duties on finished products. The Wilson Bill placed wool, iron, steel, coal, and lumber, together with sugar, on the free list. A proportionate reduction in the duties on the corresponding manufactures was proposed. The necessary revenue was to be derived from duties on tobacco, spirits, playing cards, etc. Lest these taxes should prove insufficient, a tax of two per cent on incomes above \$4000 per year was added by amendment. This revival of a war measure was opposed in the moneyed sections of the country, but enthusiastically supported by the Populists of the South and West. The Wilson Bill passed the House with no further amendment, but in the Senate, where the Republicans had control, it met with serious resistance. With the aid of Senator Gorman, amendments were adopted imposing duties on low grade sugars, on wool, coal, iron, and other raw materials, together with compensating rates on refined sugar, woolens, and a long list of manufactured articles. When the mutilated bill was returned to the House, that body refused to concur. The questions in dispute were referred to a conference without avail. The bill was in danger of going by default, when the Democratic leaders of the House agreed to accept the Senate amendments, in the vain hope of being able later to enlarge the free list by separate enactments. Thus the Wilson-Gorman Bill became law though disapproved by both parties and meeting the needs of no interest, public or private. The range of duties was reduced from the McKinley Act average of 49.5 per cent to an average rate of 39.94 per cent.

Dewey,
455-458.
Sherman,
II, Ch. LXV.

Laughlin
and Willis,
Ch. VIII.

The Republicans won the election of 1896 on the currency issue, but President McKinley regarded the victory as an indorsement of his protective policy. Dingley of Maine was commissioned to prepare the tariff bill that was sub-

Tariff Hear-
ings,
1897.

Taussig,
Tariff Act of
1897.

Laughlin
and Willis,
Ch. IX.

mitted to the House of Representatives in an extra session convened immediately after the inauguration. The bill was rushed through the House in the form proposed by the Committee of Ways and Means, but in the Senate, where parties were more equally divided, it met with stubborn resistance. The Finance Committee, to which the measure was referred after the initial debate, was made up of four Republicans, four Democrats, and one Populist. The balance of power rested with the latter, Senator Jones of Nevada. He succeeded in incorporating in the reported bill a series of amendments in the interest of the farmers, ranchers, and lumbermen of the Far West. A duty of one cent a pound on citrous fruits was proposed in response to the demands of the orange growers of southern California. One and one half cents a pound on hides was offered as a concession to the cattlemen of the plains. An increase in duty on carpet wools was admitted in the interest of the sheep ranches of Montana and Idaho. The duty on lumber (\$2 per thousand feet) served to protect our lumber merchants against competition from Canada. The bill, when finally passed, accorded protective duties to every business interest that could profit by them, at rates higher than had been adopted in any previous tariff. The average range of duties was 57 per cent.

The Dingley Tariff has met with serious criticism on the ground that it serves to promote industrial combinations. It is asserted that the representatives of various trusts brought the influence of vast wealth to bear upon the Congressional deliberations. The tin plate combination for example secured a renewal of the rates of the McKinley Act. The sugar trust extorted a differential of three fourths of a cent a pound, two and one half times that allowed under the Wilson Tariff. Even the protection intended to advantage the farmers and other raw material producers has accrued to the centralized industries. The enhanced value of American hides enriches the beef packers; the duty on lumber insures monopoly of the domestic market to great timber companies, and has hastened the ruinous



LUMBERING ON PUGET SOUND



exploitation of our forest lands. The conflict of interest between manufacturer and producer of raw material has induced further criticism. The woolen manufacturers protest the high duties on wool; the shoe manufacturers oppose the tax on hides; the paper manufacturers demand free bleaching powder. To recoup themselves for the enhanced cost of raw materials, these interests have been obliged to advance the selling prices of their products. On the whole, however, the Dingley Tariff has proved highly beneficial to the protected industries. The output of iron and steel has developed to phenomenal proportions. High prices on domestic sales enable our manufacturers to export agricultural implements, structural iron, steel rails, etc., to foreign markets, and there to underbid their English and German competitors. But the prosperity of the manufacturer has been promoted at the expense of the consumer. The prices of all the essentials that enter into the cost of living—food, clothing, fuel, building materials, house furnishings, etc.—have risen steadily since 1897. The total rise in prices amounts, in 1904, to an addition of one fourth to the prices prevailing in 1896.

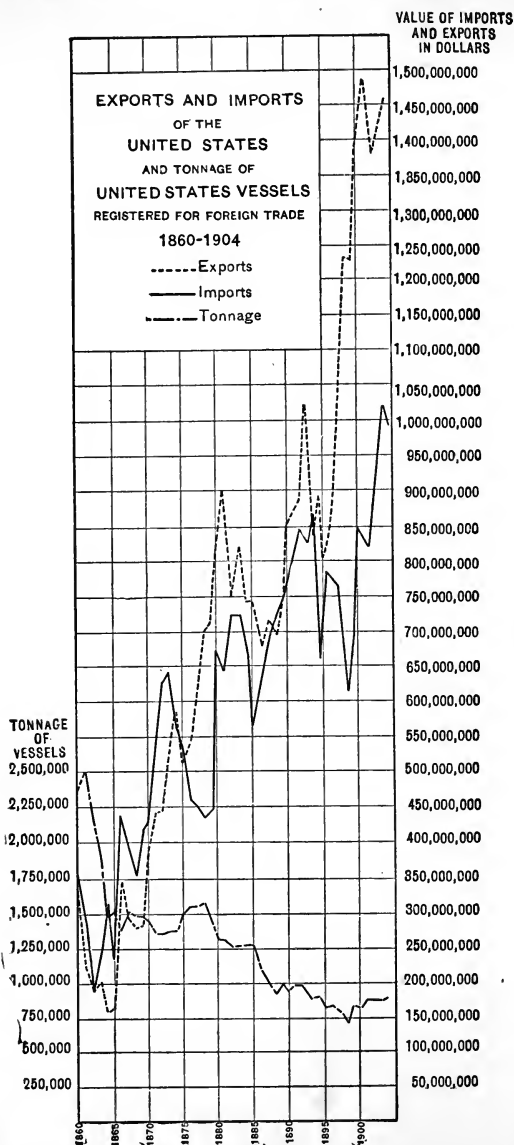
Patten,
Economic
Basis of
Protection.

Bulletins,
Bureau of
Labor,
No. 51, 53.

Expansion of Commerce : Decline of Shipping

This high tariff policy, maintained with slight modification for forty years, has had the effect of checking the importation of foreign goods. Imports have increased, indeed, but not so rapidly as population, while the ratio of exports to population has steadily risen.

YEAR	IMPORTS PER CAPITA	EXPORTS PER CAPITA
1860	\$11.21	\$10.60
1870	11.31	10.19
1880	13.32	16.43
1890	12.60	13.50
1900	11.14	17.96



With the exceptions of 1875, 1888 and 1889, and 1893, years of industrial depression, the balance of trade has been in our favor since the Civil War. The total excess of exports over imports for thirty years past exceeds six and a quarter billion dollars.

For each of the seven years following on 1897 the value of our exports has exceeded \$1,000,000,000. This extraordinary showing is due in part to the increasing foreign demand for the raw materials supplied by American farms, mines, and forests. The export tables of 1904 report \$370,800,000 in raw cotton, \$55,000,000 in pig copper, \$30,000,000 in leaf tobacco, and \$16,000,000 in naval stores. During the last two decades of the nineteenth century we achieved a notable commercial triumph in the conquest of foreign markets for our manufactured commodities. The surplus products of our cotton mills, shoe factories, iron and steel works, etc., have sought and secured purchasers abroad. Cotton goods to the value of \$22,000,000 are sent to the Orient, where they sell in competition with English and German goods. Sewing machines to the amount of \$5,000,000 and agricultural implements worth \$22,000,000 are annually sent to foreign markets. The export of iron manufactures in 1904 amounted to \$112,000,000. Farm products are now being exported, not only in the rough, as grain, cattle, etc., but as prepared foods, which represent greater value in proportion to bulk. The money worth of the flour exported in 1904 was nearly double that of the wheat sent abroad for sale. The mills of Minneapolis grind not for seaboard markets only, but for European as well. The Pacific ports — San Francisco, Portland, Seattle, and Tacoma — ship the harvests of the wheat ranches of California and the Columbia River basin to Hawaii, Japan, China, and India. One third of these shipments is sent in the form of flour, that wheat may the more easily supplant rice in the Oriental diet. Refrigerator cars and refrigerator steamers enable the packing houses of Chicago and Omaha to send dressed meats to any part of the world. The exports of prepared meats in 1904 were three and two thirds times the value of the live animals exported. The

Laughlin
and Willis,
Ch. X.

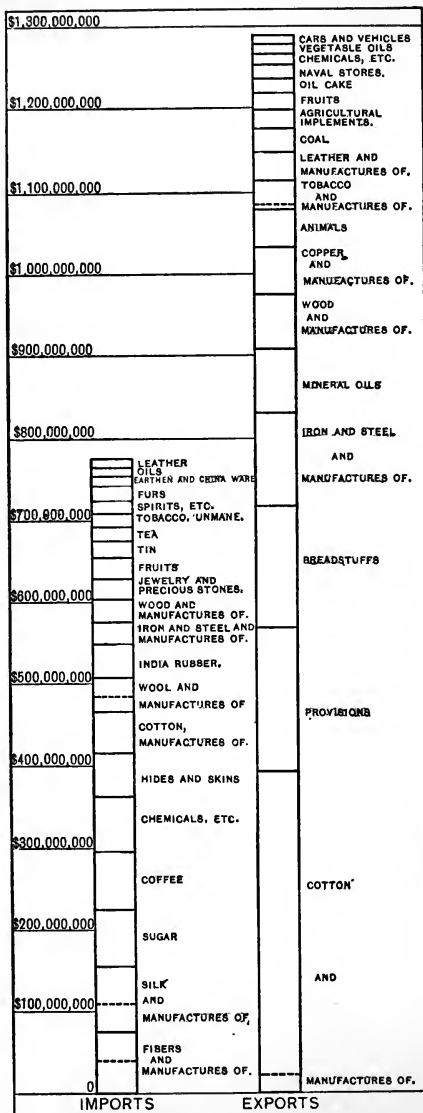
Rept. of the
Industrial
Commission,
VI, Pt. III,
VIII.

North,
Tariff and
Export
Trade.

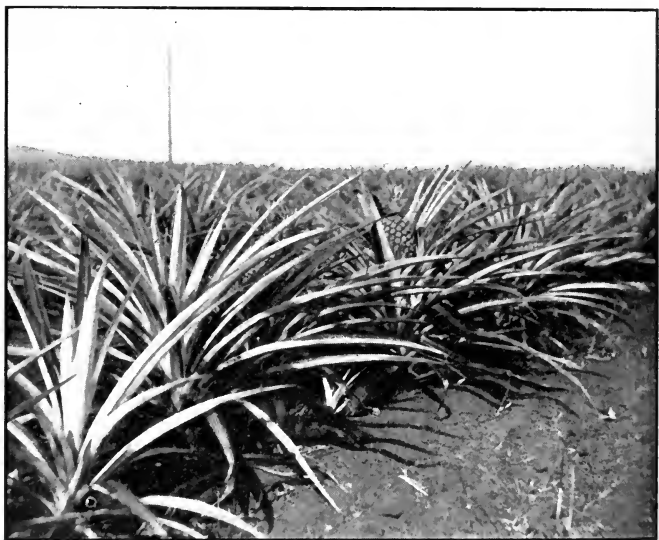
Rept. Indust.
Com.,
VI, Pt. I, II.

Rept. Indust.
Com.,
VI, Pt. V,
VII.

PRINCIPAL
IMPORTS
AND EX-
PORTS FOR
THE YEAR
ENDING
JUNE, 1904.







PINE APPLE PLANTATION IN HAWAIIAN ISLANDS

value of the fresh beef sent abroad in 1904 was between three and four times that of the fish canned, salted, and dried for foreign markets. The exportation of meat and dairy products (combined under the head of provisions in the official tables) amounted to \$176,000,000 in 1904. Modern transportation facilities bring the American farmer, whether on the cotton lands of the "black belt," the cattle ranches of the plains, the orange groves of California, or the vegetable gardens of Texas, within reach of a profitable market. Apples are sent from Hood River, Oregon, to the epicures of Paris, and pine-apples from Hawaii reach the fruiterers of New York City.

The rapidly increasing proportions of our export trade necessitate the seeking out of new purchasers. The industrial justification for the purchase of Alaska, the annexation of the Hawaiian Islands and of Porto Rico, the retention of the Philippines, and the negotiation of a reciprocity treaty with Cuba is the advantage of securing commercial control of these complementary markets. To the mining camps of Alaska we send provisions in exchange for gold; to the tropic islands we send food stuffs, textiles, and machinery in exchange for raw sugar, fruits, and hemp. Our exports to Cuba come to more than \$27,000,000 annually. Hawaii and Porto Rico take from us more than \$11,000,000 each, and Alaska \$10,000,000. Our exports to the Philippine Islands amount to but \$4,600,000 a year, only one seventh of their total purchases.

This period of extraordinary commercial expansion has witnessed an unparalleled falling off in our ocean marine.

Laughlin
and Willis,
Ch. III, XI.

Semple,
Ch. XVIII.

Stat. Abstract
of U.S.,
1904,
610, 641-643.

Marvin,
Ch. XVI.

YEAR	TONNAGE	TONNAGE PER CAPITA	PROPORTION OF FOREIGN COMMERCE CARRIED ON IN AMERICAN VESSELS
			Per Cent
1860	2,379,396	.075	66.5
1870	1,448,846	.037	35.6
1880	1,314,402	.026	17.4
1890	928,062	.014	12.9
1900	816,795	.010	9.3

Stat. Abstract
of U.S.,
1904,
471, 487.

U.S. Census,
1900,
X, 209-239.

The reverses of the Civil War have never been made good. During the generation following, the tonnage registered for the foreign trade decreased fifty per cent. The lowest ebb was reached in 1898, the year of the Spanish War, when our total tonnage of steam and sailing vessels combined was but 726,213. Now at the opening of the twentieth century, nine tenths of our exports and imports are consigned to ships that float a foreign flag.

Stat. Abstract
of U. S.,
1904,
470, 471.

Marvin,
375-380,
400-412.

Bates,
Ch. XVII.

Semple,
Ch. XIX.

Rept. Deep
Waterways
Commission,
54th Cong.,
2d Session,
House Doc.
No. 192.

Johnson,
Inland
Waterways,
Ch. X, XI.

Morrison,
List of Ref-
erences on
Canals.

Marvin,
Ch. XVIII.
Bates,
Ch. XXVII.

This decay in our ocean marine is the more striking because the tonnage employed in the coastwise trade has doubled, and that on the Great Lakes has trebled during the same period. Commercial ventures in these waters are protected by the exclusion of foreign competitors. The immense shipments of iron ore, lumber, and wheat from Duluth, Chicago, and Milwaukee to Buffalo and other Lake Erie ports, call into requisition great freight steamers of speed, strength, and capacity not excelled in sea-going vessels. The extension of our coastwise regulations to Alaska, the Hawaiian Islands, and the Philippines has given the growing traffic from our Pacific ports largely into the hands of American vessels. The tonnage registered for the Pacific trade has increased by eighty-four per cent since 1897. The total tonnage now employed in the coastwise trade and in the service of the Great Lakes and Western rivers is 6,291,535, seven times the tonnage registered for foreign trade. The canalizing of the Ohio River from Pittsburgh to Cairo, the construction of a deep-water canal from Buffalo to Albany that will enable an ocean vessel to sail direct to Chicago or Duluth, the cutting of the barrier between the Atlantic and Pacific by a maritime canal across the Isthmus of Panama, eliminating the voyage around the Horn,—these are propositions that may greatly further domestic commerce and enhance the discrepancy between domestic and foreign shipping interests.

The Subsidy Policy.—Legislation in behalf of our deep-sea fleet has been broached in Congress several times in the past twenty years. Differential tonnage duties and preferential tariffs, after the precedent of the first decade of our

national history, are incompatible with the commercial treaties now in force, and the subsidy policy, practiced by our principal European competitors, has been adopted as the best means of strengthening our merchant service. Senator Frye of Maine brought forward two bills in 1891, the first proposing to subsidize mail steamers and the second freight steamers and sailing vessels, in proportion to speed and tonnage. Both measures passed the Senate, but the second was defeated in the House, and the Postal Aid Law, as finally enacted, provided for much lower rates than Frye had originally proposed.

Griffin,
List of Refer-
ences on
Subsidies.
Rept. Frye
Committee,
51st Cong.,
1st Session,
House Rept.
No. 1210,
also Nos.
2766, 3273.

SUBSIDY OFFERED TO MAIL STEAMERS, 1891

CLASS	TONNAGE	SPEED	PAYMENT FOR OUT- WARD VOYAGE
		knots	per mile
First	8000	20	\$4.00
Second	5000	16	2.00
Third	2500	14	1.00
Fourth	1500	12	0.67

Under this law mail contracts were negotiated with the Pacific Mail Company for service between New York and Colon, Panama and San Francisco, and from San Francisco to Hongkong and Yokohama; with the Oceanic Steamship Company for service between San Francisco and Honolulu and Australia; with the Ward Line to Havana and Mexico; with the Red D Line to Venezuela, etc.: but our Pacific and South American service was not endangered by European competition. The only company prepared to undertake a mail contract for transatlantic service was the Inman Line, recently come under American management. The subsidy of \$12,000 on every outward voyage enabled this company to maintain a fleet of four first-class steamers. These vessels, together with some of the larger coasting steamers, rendered indispensable government service during the Spanish War, when the requirement that all of

Frye,
North At-
lantic Steam-
ship Trans-
portation.

the officers and one-half of the crew of a subsidized ship be American citizens proved to have political as well as economic significance.

McVey,
The Frye
Subsidy Bill.

The subsidy offered in 1891 proved insufficient to induce new ventures in the transatlantic service. Although four fifths of the freight and three fourths of the first cabin passenger traffic originates in the United States, the major part of the shipping employed belongs to Great Britain, Germany, and France. Large sums are every year paid to foreign companies in freights and fares as well as for mail service. In the hope of enabling American ships to compete with the heavily subsidized English lines, Senator Frye reintroduced in 1901 a general subsidy bill. It called for an annual appropriation of \$9,000,000 for a term of thirty years. The rates proposed were one third higher than those already prevailing, and they were offered to freight steamers and to sailing vessels. The bill was vigorously supported by the commercial and shipbuilding interests, but it was ultimately defeated by the opposition of the agricultural sections South and West.

Repts. Frye
Committee,
55th Cong.,
3d Session,
Senate Rept.
No. 1551.

57th Cong.,
1st Session,
Senate Rept.
No. 201.

Gunsburg,
The Atlantic
Shipping
Combine.

Meade,
Capitaliza-
tion of the
Int. Mer.
Marine Co.

Chamber-
lain, The
New Cunard
Steamship
Contract.

The International Mercantile Marine Company. — The restoration to ordinary trade of merchantmen requisitioned for transport service in the South African and Spanish-American wars brought on ruinous competition and a rate war that threatened disaster even to well-established lines. In 1902 a combination of the principal transatlantic companies with a view to maintaining profitable rates, distributing tonnage among the ports and railroads to be served, and adjusting sailings to traffic, was undertaken by C. A. Griscom, president of the Inman Line, and J. P. Morgan, the great New York banker. The possession of the Inman, Red Star, and Leland lines, and the purchase of a majority interest in the Atlantic Transport, White Star, and Dominion lines gave the combination control of one hundred and forty first-class steamers, representing more than a million tons freight capacity and one third the transatlantic passenger accommodations. The negotiation of a "working agreement" with the two great German lines and the principal

French company gave the International Mercantile Marine a practical monopoly of commerce between Europe and America. Alarmed for the integrity of their merchant service, the British government offered the Cunard Company, as the price of independence, an annual subsidy of \$750,000 on a twenty year contract.

The combination has done much to assure financial permanence to certain American lines, but it proposes no advantage to American shipyards. New vessels required by the British contingent are to be built at the Belfast yards.

Currency Problems

Demonetization of Silver: the Gold Standard.—Our bimetallic currency system has never been in full and successful operation. The overvaluation of gold in the Coinage Act of 1834 was enhanced by the enormous output of the California mines. Production of silver in the United States was inconsiderable until 1870, and the annual output was readily absorbed in the arts. Little was brought to the mints, and that little was coined into debased fractional currency, as provided by the Act of 1853. The sum total of the silver dollars coined from 1789 to 1873 was but eight millions, while gold had been coined since 1850 at the rate of \$32,000,000 per year. No specie was in circulation during the war period except the \$25,000,000 in gold used on the Pacific coast. In the attempt to get back to a specie basis, Congress naturally overlooked the part that silver had been intended to serve in our currency system. The Coinage Act of 1873 aimed to conform currency legislation to existing conditions. The silver dollar of 371.25 grains was dropped from the list of coins to be minted, but the manufacture of a coin containing 378 grains of pure silver was authorized for use in the Oriental trade. This trade dollar, like the fractional silver, was given legal tender efficiency to the amount of five dollars only.

The demonetization of silver attracted little attention at the moment, but it was soon denounced in bitterest terms

Dewey,
403-410.

Laughlin,
Ch. VII.

Rept. of the
U. S.

Monetary
Commission,
1876.

Noyes,
Am. Finance,
35-42.

as a fraud perpetrated upon an unsuspecting people by the money lenders of Wall Street. The supposed plot was not discovered until the increasing output of silver from the Nevada mines brought an oversupply of that metal into the market and caused a fall in price. Unfortunately for this interest, the foreign market was seriously curtailed at this same time by the demonetization of silver in Germany (1871), in Holland and the Scandinavian Peninsula (1875), and in Austria (1879). The Latin Union continued to use silver as legal tender, but suspended coinage in 1873. By consequence, the market ratio of silver to gold veered from 15.57 in 1871 to 17.87 in 1876. Close upon this drop in market value arose a demand for the renewed coinage of silver at the legal ratio of sixteen to one. The agitation originated with the mine owners of Nevada and Colorado, who wished to dispose of their product at the mint; but it was eagerly seconded by the debtor class, the unfailing advocates of cheap and abundant money. The farmers of the new West, struggling under heavy mortgages, were easily convinced that the value of gold had been advanced by the money monopolists of New York City, and that silver was the true measure of purchasing power. The panic of 1873 and the prolonged stringency in the money market lent plausibility to this not unnatural inference.

Richard Bland of Missouri brought before the House (1876) a bill providing for the free and unlimited coinage of silver at the ratio established in 1834. The bill passed the House after protracted debate, but a Senate amendment restricted the amount of silver bullion that might be presented at the mint and authorized the secretary of the treasury to coin at his discretion from two to four million dollars a month. President Hayes vetoed the measure on the ground that the proposed dollar was eight or ten cents less in value than it professed to be; but the bill was carried over his veto and became law in 1878. The silver dollars coined under the Bland Act were to have full legal tender efficiency, and their circulation was furthered by the issue of paper certificates against the coin held at the mints.

This law was in force for twelve years, during which time there were coined \$369,400,000 silver dollars. The coinage of gold for the same interval amounted to \$470,600,000. The volume of the specie currency was doubled, and the total per capita circulation rose from \$15.32 in 1878 to \$22.82 in 1890. Money was more abundant than in the years of inflation preceding the crisis of 1873. Gold began to leave the country. We exported \$32,000,000 in 1882 and \$41,000,000 in 1884. Silver superseded gold in payments on government obligations as well as in private exchange. The crisis of 1884 was due in some degree to this adoption of a depreciated currency.

The advocates of cheap money were not alarmed by the prospect of the substitution of a silver standard. They persistently urged the free and unlimited coinage of silver as the only means of doing justice between debtor and creditor. Under the names of the Farmers Alliance and the Populist party, the agricultural sections argued now as always for inflation of the currency. The agitation for and against free silver culminated in the Sherman Act of August 14, 1890. The measure represented the desires of neither party, but was a compromise of contending interests. The secretary of the treasury was directed to purchase silver bullion at the rate of 4,500,000 ounces per month. The market price (up to the limit of one dollar for 371.25 grains) was to be paid in treasury notes issued for this purpose and redeemable in gold or silver on demand. The Bland Act was repealed, but the treasurer was authorized to coin as much of this bullion into standard silver dollars as might be needed from time to time for the redemption of the notes. This fixed demand for fifty-four million ounces a year, coupled with exports, was sufficient to absorb the total annual output of the mines of the United States, and brought the value of silver well-nigh up to par. The market ratio in August, 1890, was 17.26 to one. The value of the silver bullion in a standard dollar rose from seventy-five to ninety-two cents.

The Sherman Act held for three years and a half, and during that time the government bought up one hundred and sixty-

Noyes,
Am. Finance,
Ch. IV, VI,
VII.

Dewey,
436-450.
Rept. of the
Sec. of the
Treasury,
1889,
lx-lxxxiv.

Taussig,
The Silver
Situation,
1-48.

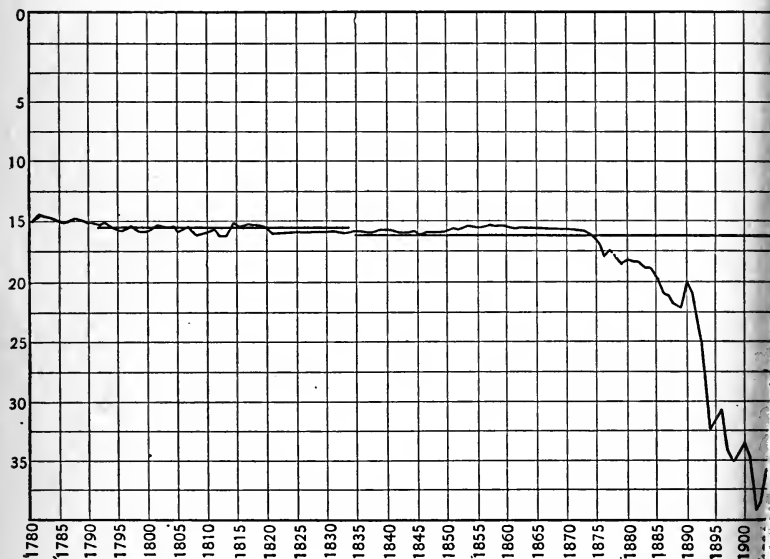
Sherman,
II, 1061-1071.

Hoxie,
Debate of
1890.

Taussig,
The Silver
Situation,
48-71.

Rept. of
Monetary
Commission,
1898,
138-145.

nine million ounces of silver at a cost of \$156,000,000. After a brief revival, the value of silver slumped again, and the Treasury lost \$16,000,000 on account of this depreciated deposit. The desperate endeavor to raise the market value of silver to the mint ratio was ultimately thwarted by events in the Far East. The British government suspended the coinage



RATIO OF SILVER TO GOLD

Legal Ratio { 1792-1834, 15:1
1834+ 15.98:1

Cong. ~
Record,
XXV, Pt. I,
205-206.
Sherman,
II, 1175-
1200.

of the silver rupee in June, 1893, and the East Indian market was suddenly cut off. The ratio of silver to gold veered immediately to 28.25 to one. President Cleveland called a midsummer extra session of Congress and presented the necessity of stopping the purchase of silver. The House readily acquiesced, but the Senate, which had been recruited from several Western states, — Wyoming, Idaho, and Montana, — stubbornly contested the measure. The Senate





MODERN MACHINERY IN THE CORN BELT

an Act was finally repealed, and the purchases of silver million ceased in December, 1894. The coinage of the silver million in the treasury was suspended until 1898, when the minting of \$1,500,000 per month was ordered. The rating of the discredited metal sank to 39.15 to 1 in 1902. At that ratio, the value of the silver in a standard dollar was at fifty-three cents.

The Financial Crisis of 1893.—Meantime, the business world was convulsed by a panic of unprecedented severity. The immediate occasion was the general apprehension lest the depreciating currency involve a shrinkage in all other values. Creditors endeavored to secure payment in gold, and banks to the number of 554 were forced to close their doors. The failures for 1893 numbered 15,242, and the total losses amounted to \$346,779,889. The depression extended to every branch of industry. Many of the silver mines could not be operated at prevailing prices and discharged their laborers. The European demand for wheat fell off, and the price of this great staple dropped to fifty cents a bushel. This, with the failure of the corn crop in 1894, involved thousands of farmers in ruin. Manufacturers, menaced by the reduction of import duties proposed in the Wilson Bill, curtailed production or shut down altogether. Traffic declined and freight receipts fell off to a disastrous degree. Railway companies were seriously embarrassed and construction ceased. The demand for rails and structural iron shrank, and steel manufacturers reduced their output by one third. The reaction upon wage-earners was severe. Idle farm hands tramped the country in search of work. Unemployed operatives crowded the streets of the factory towns, demanding work or food. Workmen abandoned the mining districts and flocked to the cities. The whole country was prostrated by the industrial depression.

The election of 1896, involving the possibility of free coinage of silver at the ratio of sixteen to one, prolonged business unrest. The failures of that year numbered 15,088. The victory of the Republicans restored confidence in the stability of the currency. Decisive action was, however,

Burton,
292-305.
Noyes,
Am. Finance,
Ch. VIII.
Conant,
Hist. of Modern
Banks,
524-554.
Rept. Monetary
Com.,
1898,
219-223.
Andrews,
An Honest
Dollar.
Stat. Abstract U.S.,
1904,
376.

Dewey,
460-462,
468-471.
Taussig,
Currency Act
of 1900.
Falkner,
Currency
Law of 1900.

delayed by an opposing majority in the Senate. Not until 1900 was the gold standard declared. The extraordinary revival of business prosperity was due not so much to legislation as to far-reaching transformation of economic conditions. The failure of the wheat crop in Russia and Australia called for heavy exportations of grain and a welcome rise of prices. With wheat selling at a dollar a bushel, the farmer could pay his debts and spend money for improvements. The foreign market for American steel and structural iron was being developed, and a period of extraordinary prosperity opened for that basic industry. The discovery of gold in Alaska brought a new supply of the hoarded metal to our mints. Between 1898 and 1900 \$714,200,000 in gold was coined at the United States mint. The bimetallists' argument, that the supply of gold was short of the demand, and that its value was, therefore, appreciating, ceased to have weight. The per capita circulation rose from \$21.41 in 1896 to \$30.77 in 1904, and the advocates of abundant money were fully satisfied.

Dewey,
385-391,
410-412,
471-472.
Bolles,
III, 341-372.
Conant,
265-270.

Revision of the National Bank System. — The volume of the currency had not been increased by the national bank. Their issues had been actually curtailed after the financial crises of 1873 and 1884. The amount of the notes in circulation in 1891 was but \$162,000,000, less than that of any time since 1865. The number of the national banks was steadily increasing, but their issues had fallen off. The approaching extinction of the government bonds gave these securities high market value. To issue money against ninety per cent of the par value of bonds that were quoted above par was not a profitable proceeding.

White,
Money and
Banking,
Ch. XVI,
XVII.

The free silver and greenback constituencies were quite content to see this element of our currency disappear. The majority of our national banks were in the wealthy cities of the East and North, and they were regarded in other sections of the country as parties to the conspiracy of the money lenders against the people. Various projects for the revival of the national bank issue were brought forward from time to time, such as the extension of the term of the national bond

new bond issues, the substitution of state and municipal bonds, and the safety fund system, but no thorough-going reform was able to secure a majority vote. Finally, the proposition of Secretary Gage for revision of the existing plan was adopted and put into operation. By the act of March 14, 1900, note issue was allowed to the full face value of the bonds; the tax on circulation was reduced from one per cent to one half of one per cent; and national banks with a capital of but \$25,000 were authorized in towns of not more than three thousand inhabitants. These modifications offered considerable relief from the difficulty under which the banks were laboring. The issue of new Federal bonds enabled the banks to purchase these securities on terms under which currency could profitably be issued. By September, 1901, 662 new banks were chartered, country banks for the most part, capitalized at less than \$50,000. The number of national banks in September, 1904, was 5412, more than at any previous period. The issue has risen to \$449,235,095, and the average dividend paid by national banks has increased from 3.94 per cent in 1900 to 4.96 per cent in 1904.

Hepburn,
State and
Nat'l Bank
Note Circu-
lation.

Rept. Sec. of
the Treas.
1897,
76-77.

Rept.
Monetary
Com.
1898,
224-276.

Government Control of Railroads

The last two decades of the nineteenth century witnessed a development of railway transportation unparalleled even in the decade following on the Civil War. The industrial depression consequent on the crisis of 1873 once past, track construction was prosecuted with redoubled energy. The total mileage in operation in 1903 is 207,600 miles as against 74,000 miles in 1875. The capital investment represented amounts to \$13,000,000,000, three times that of 1875. The ratio between mileage and population indicates that transportation facilities have more than kept pace with the development of the country.

Griffin,
List of Refer-
ences on
Railroads.

Stat. Abstract
U. S.,
1904,
396-401.

The number of people per mile of railroad is 746 in New England, 529 in the Middle and North Central States, 465 in the Southern, 238 in the Cordilleran, and 195 in the Pacific States.

The passenger business of the railroads has almost doubled in the past twenty years, while the freight traffic has increased 335.8 per cent. Passenger rates have been pretty steadily maintained at an average of two cents a mile, but freight rates have fallen from one and one fourth cents per ton mile in 1882 to three fourths of a cent in 1900. This reduction in charges has been usually consistent with maintenance of dividends, because, the roads once established and initial construction expenses covered, traffic grows more rapidly than current expenses.

AVERAGE RECEIPTS PER TON MILE ON LEADING RAILROADS

Stat. Abstract
U. S.,
1904,
400-402.

	1870	1880	1890	1898	1899	1900	1901	1902	1903
Erie	\$1.33	\$.84	\$.64	\$.56	\$.52	\$.56	\$.59	\$.64	\$.61
C. B. & Q. . .	3.06	1.28	.95	.93	.87	.86	.85	.77	.87
Santa Fé . .	3.23	2.43	1.23	1.03	1.02	.98	1.01	.99	.95
Richmond and Danville . .	5.37	2.16	.77						
Southern				.93	.90	.92	.94	.93	.95
Union Pacific	4.26	1.99	1.38	1.04	1.02	1.05	1.03	.98	.97
Average for all Roads . .	2.39	1.16	.80	.62	.62	.63	.63	.64	.66
Average Rate of Dividends on Stock .	(1876) 3.03%	2.85%	1.82%	1.71%	1.92%	2.44%	2.65%	2.97%	3.03%

Charges per ton mile have been of necessity higher on the Western and Southern roads, especially in the initial stages of their development. The effects of the devastations of the Civil War is evident in the high charges on the Richmond and Danville line. Profits depend on the amount and character of the freight transported, rather than on the rates secured. The volume of traffic fluctuates with general industrial conditions. The average rate of dividends was considered low in 1876, but it fell to two per cent after the crisis of 1884, then rose slightly, only to fall again to one and one half per cent with the industrial depression of 1893. Since 1897 annual dividends have risen steadily.

The crisis of 1884 was occasioned by over-investments in railroads. The mileage built in 1882 and 1883 (18,314) exceeded the construction of 1870 and 1871 by five thousand miles. In 1884 and 1885 forty-one railway corporations holding nineteen thousand miles of track were placed under receivership, and thirty-seven smaller railroad properties were sold under foreclosure. Transportation investments had no part in bringing on the panic of 1893, but the railroads suffered severely from the consequent depression. Both freight and passenger traffic fell off, and earnings declined. Some of the more speculative enterprises were unable to cover operating expenses and meet interest payments on their bonded debt. Creditors brought suit, and the roads, one after another, were given over to receivers. More than two hundred railway companies, representing fifty-six thousand miles of track and one fourth of the railway capital of the country, went into the hands of receivers between 1892 and 1896. Three hundred and fifty corporations, smaller enterprises for the most part, were sold under mortgage in the years from 1892 to 1900. The great transcontinental lines—the Santa Fé, the Northern Pacific, and the Union Pacific—were most heavily involved. The problem before the government in the case of the Union and Central Pacific was to reorganize the management in such fashion as to enable the roads to meet their obligations to bondholders and to pay off their accumulated indebtedness to the United States Treasury, and this was successfully accomplished.

The rehabilitation of a bankrupt railroad requires time and skill. The claims of bondholders and the public served can best be met, not by a foreclosure sale, but by reorganization under a new company which falls heir to the obligations as well as to the property of the suspended corporation. The processes of reorganization have given opportunity for financiers with reserve capital to combine local interests into a comprehensive railroad system. Branch lines have been absorbed, terminal facilities merged, independent roads bought in, to the end that a composite trunk line might dominate the transportation interests of a great section of

Stat. Abstract
U. S.,
1904,
406.

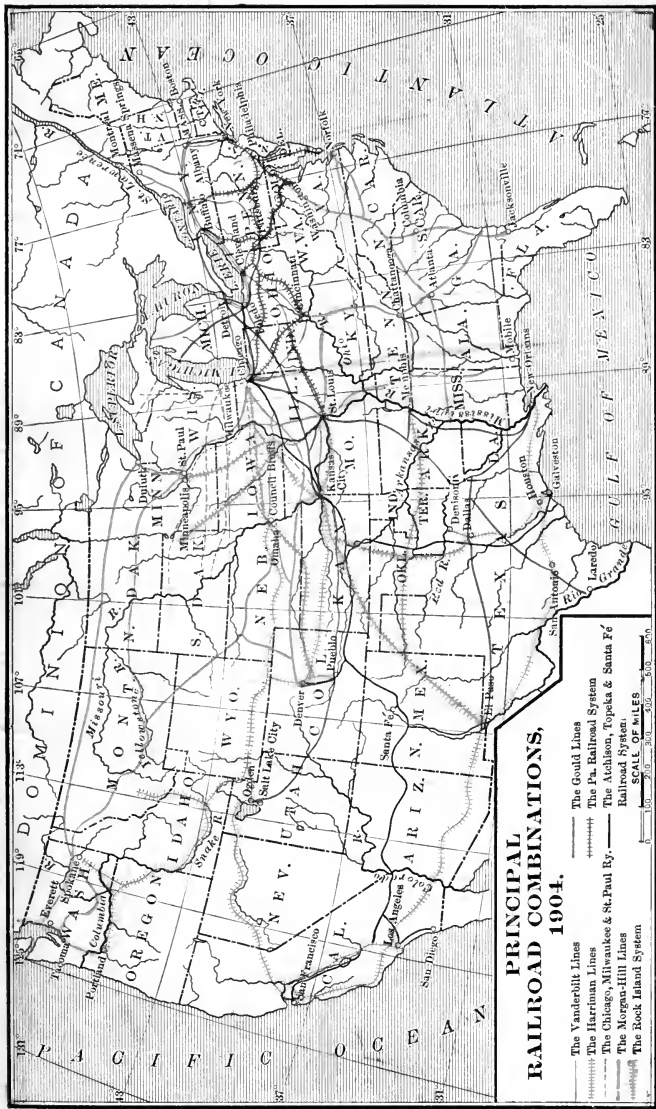
Davis,
Union Pacific
Railway.
Annals Am.
Academy,
8: 259.

the country. Thus the Richmond and Danville line was bought in at foreclosure sale by J. P. Morgan and reorganized as the Southern Railway; the Union Pacific came under the control of E. H. Harriman, president of the Southern Pacific; the Chicago, Burlington and Quincy was appropriated by J. J. Hill, the ambitious promoter of the Great Northern Railway. Since 1893 there has been comparatively little construction. The energies of railway financiers have been devoted to consolidation and to development of the existing lines. Half a dozen great railway systems now control the traffic of the whole country. The Vanderbilt lines dominate the transportation interests of the Northeastern states. The fusion of the New York Central with the Lake Erie and Western, together with the annexation of the Michigan Central and the Michigan Southern, gives this combination control of railway connections between Chicago and New York, while a ninety-nine year lease of the Boston and Albany secures the most direct entry to the Northern port. Twelve thousand miles of track and seventy thousand freight cars are operated under this management. The Pennsylvania system monopolizes all the transportation routes between Pittsburg and the sea. The goods to be carried are exceptionally bulky,—coal and coke, iron and steel manufactures. One fourth the freight of the United States is transported by the Pennsylvania, and two hundred and fifteen thousand freight cars are employed in its service. The Baltimore and Ohio and the Long Island railroads have been recently brought under the same system, giving a total mileage of thirteen thousand. The Gould lines form the main arteries of the Mississippi Valley traffic, covering the territory from the Gulf to the Great Lakes, from the Alleghany to the Rocky Mountains, with a network of transportation agencies. The Southern Railway management has consolidated the trunk line from Washington to Atlanta with the Mobile and Ohio. These combined lines, with their numerous branches, tap every important industry of the South, conveying cotton from the “black belt” directly to the mills of the “fall line,” the coal and the iron

Spearman,
Strategy of
Great Rail-
roads,
1-173.

Newcomb,
Recent Rail-
road Combi-
nations.

Newcomb,
Concentra-
tion of Rail-
way Control.





manufactures of the southern Alleghanies to the factory towns and to the ports. The five transcontinental railroads have been reduced to three. The Atchison, Topeka and Santa Fé was successfully reorganized after the collapse of the original management in 1893 and maintains an independent status. The extension of the line to San Francisco establishes direct connection between Kansas City and the most important ports in California. The Great Northern operates the St. Paul, Minneapolis and Manitoba under a nine hundred and ninety-nine year lease, and thus lays hold on the wheat lands of the Dakotas and the Columbia River basin, the timber ranges of the Cascades. A working agreement with the Southern Railway enables the Great Northern to carry cotton and hardware from Alabama to Puget Sound without transshipment. In this direct commerce from sea to sea, the Chicago, Burlington and Quincy serves as the connecting link. The Harriman system covers a vast territory between the Missouri River and the Pacific coast. Eighteen thousand miles of track and \$350,000,000 of capital are represented in this vast consolidation. Control of the Northern Pacific has been in dispute, both Hill and Harriman seeking to secure a majority interest in the stock of this important competitor. The Northern Securities Company, through which Hill hoped to merge the management of the Northern Pacific in that of the Great Northern, was declared illegal by the Supreme Court. In the redistribution of stock neither party has been able to establish complete mastery.

The defeat of the Northern Securities Company will probably prevent further merging of parallel lines, but the consolidation of connecting roads into a continuous system and the leasing of branch lines greatly conveniences the traveling public, and is only protested on the ground that so vast an accumulation of wealth and power may transcend government control.

Rate Regulation. — Recent charters of incorporation, both state and national, and the general incorporation laws adopted in lieu of special charters by the several states, have done

Griffin,
List of References on
Railroads,
57-68.

Hatfield,
Lectures on
Commerce,
29-131.

Meyer,
Pt. II, Ch. IV,
Appendix
III.

much to determine the relations of the railroad to the community it is intended to serve. The franchise is usually granted for a limited term and is revocable on failure to comply with its specifications. Provision for the security and comfort of passengers, safety appliances in the interest of employees, regulations as to speed, grade crossings, whistles, signals, etc., the convenience of time schedules, the adequacy of accommodations, notably in freight car service,—all these requirements have been successfully enforced. The pooling of the interests of competing roads by maintenance of uniform rates, parcelling of the territory and distribution of the traffic or division of earnings, has been attempted by both state and national authorities, but without much avail. The limitation of charges on passenger and freight traffic, the publicity of tariffs, and the prevention of rebates and of discriminations between shippers and shipping points are matters that even more deeply concern the public welfare.

The fixing of rates by direct legislation has not been attempted since the repeal of the Granger laws, but some thirty states have established railway commissions authorized to investigate charges of discrimination preferred by shippers, and to secure justice as to rates, classification of freight, distribution of cars, etc. The exceptions to this general practice are significant. Eight Cordilleran states and two territories where the need of transportation facilities overrides every other consideration, and five Eastern states where the railroad interests rule the legislatures, have as yet provided no supervising commission.

State authority, whether exercised through the limiting statute or through railway commissions, regulative or advisory, has proved quite inadequate to the control of interstate commerce, notably since the epoch of consolidation. Federal supervision of interstate commerce was provided by congressional enactment in 1887. The law requires full publicity of rates and forbids pooling as well as discrimination between places, persons, and shipments, so far as interstate traffic is concerned. An Interstate Commerce

Griffin,
List of References on
Federal
Control of
Commerce.
Rept. Indust.
Com.,
IV, 1-105,
IX, 897-920.
Stickney,
The Railway
Problem.

Clark,
State Railway
Commissions.

Dixon,
State Railroad Control,
Pt. II, III.

James,
The Railway
Question.

Meyer,
Pt. III,
Appendix IV.

Hadley,
Workings of
the Interstate
Commerce
Law.

Commission appointed by the president of the United States is empowered to investigate all charges brought before it as to preferential tariffs, rebates, etc., and to denounce an unjust rate. The concomitant function of declaring a reasonable rate that shall go into immediate operation is proposed in the Townsend-Esch bill, now before Congress. The difficulties in the way of securing even-handed justice for the shipper, the railroad, and the general public are many and great. When to the complexities of rate regulation are added the elusive methods of discrimination involved in terminal facilities and private-car service, the problem seems to transcend the wisdom of state and federal legislatures.

Rept. Senate Com. on Interstate Commerce, 1905.

Rept. Interstate Commerce Com. on Transportation of Freights, etc., 1904.

Business Monopolies

Concentration of capital in the hands of successful entrepreneurs has been the most significant tendency in the past thirty years of our industrial history. The wealth of the United States, according to the census of 1900, is \$94,300,000,000, three times that reported in 1870. Per capita wealth has increased from \$780 in 1870 to \$1235 in 1900, but riches are less evenly distributed than before the Civil War. In 1890 there were in the country approximately four thousand millionaires and multimillionaires, whose property aggregated \$12,000,000,000. At that time the rich numbered 9 per cent of the population and held 71 per cent of the wealth; the well-to-do were 28 per cent of the population and owned 20 per cent of the wealth; the poor made up 63 per cent of the population, but could claim only 9 per cent of the wealth. It is probable that the inequality is now still greater. The equalizing influences of the pioneer period have passed. The public lands that may be cultivated to advantage by the small farmer are exhausted. The arid Cordilleran area can be developed only by irrigation companies commanding large capital. The self-employed artisan is at a hopeless disadvantage in competition with the machine product. The small enterprise is being driven from the field by large-scale producers. The

Holmes, Concentration of Wealth.

West, The Public Domain.

President's Message, Cong. Record, xxxvi, Pt. I, 11.

massing of capital and concentration of industry consequent on the introduction of machinery is evident from statistics.

COTTON MANUFACTURES

U. S. Census, 1900, IX, 27.	YEAR	NO. OF ESTABLISH- MENTS	CAPITAL PER ESTAB.	SPINDLES PER ESTAB.	WAGE EARNERS PER ESTAB.	PRODUCT PER ESTAB.
	1840	1,240	\$41,292	1,842	58	\$37,379
	1850	1,094	69,745	.....	84	56,553
	1860	1,091	90,362	4,799	112	106,033
	1870	956	147,182	7,461	142	185,659
	1880	756	275,503	14,092	231	254,087
	1890	905	391,183	15,677	242	296,123
	1900	973	473,631	19,536	306	342,041

MANUFACTURES OF AGRICULTURAL IMPLEMENTS

U. S. Census, 1900, X, 344.	YEAR	NO. OF ESTABLISHMENTS	CAPITAL PER ESTAB.	NO. OF WAGE EARNERS PER ESTAB.	VALUE OF PRODUCT PER ESTAB.
	1850	1,333	\$2,674	5	\$5,133
	1860	2,116	6,553	8	9,840
	1870	2,076	16,780	12	25,080
	1880	1,943	31,966	20	35,327
	1890	910	159,686	43	89,306
	1900	715	220,571	65	141,549

SLAUGHTERING AND MEAT PACKING

U. S. Census, 1900, IX, 387, 412-421.	YEAR	NO. OF ESTABLISHMENTS	CAPITAL PER ESTAB.	NO. OF WAGE EARNERS PER ESTAB.	VALUE OF PRODUCT PER ESTAB.
	1850	185	\$18,824	18	\$64,766
	1860	259	39,221	20	113,675
	1870	768	31,543	11	98,732
	1880	872	56,673	31	348,122
	1890	1,118	104,551	39	502,336
	1900	921	205,427	74	852,945

The merging of a number of independent concerns into a business combination has been the especial achievement of the entrepreneurs of the present generation. The advantages accruing from wholesale purchases of raw material, the conversion of wastes into by-products, and the non-competitive marketing of goods are so great that success seems inevitable, if the management be wise. When there is added to these legitimate profits the advantages that the large shipper may secure from transportation agencies in the way of rebates, preferential tariffs, and terminal facilities, it is evident that the success of the great combination, when brought into competition with the independent producer, is well-nigh inevitable. An industrial revolution, comparable to that resulting from the introduction of machinery, is in progress.

Most notable of the earlier combinations was the Standard Oil Company. This group of Cleveland refiners undertook to secure, not only the advantages of wholesale manufacture, but control of the crude oil market and of the transportation facilities as well. In 1870 the Standard was only one of two hundred and fifty oil refineries, and its product was only four per cent of the total output. In 1877 it controlled ninety-five per cent of the oil refined in the United States. The strenuous opposition of crude oil producers and independent refiners induced in 1882 a completer fusion of the Standard interests. The forty affiliated companies made over their respective properties to a body of trustees, receiving in exchange trust certificates pro rata for the stock surrendered. The business was thereafter managed by the nine trustees, and all possibility of variations in policy was done away. The arrangement was entirely successful so far as control of the industry was concerned. Large-scale production rendered profitable scientific processes of manufacture, improvement in quality, and reductions in selling price that could never have been brought about by the hand-to-mouth methods in vogue in the oil fields.

The success of the Standard Oil Company suggested similar combinations in other lines of business. The sugar refiners, the

Jenks,
The Trust
Problem,
Ch. I-IV.

Montague,
Rise and
Progress of
the Standard
Oil Com-
pany.
Tarbell,
The Stand-
ard Oil
Company.
Dodd,
Trusts.
Moody,
Truth about
the Trusts,
109-132.
Rept. Indust.
Com.,
I, 93-173.

Montague,
Trusts of
To-Day,
Ch. I, II.

Rept. Indust.
Com.,
I, 59-253.

Jenks,
Michigan
Salt Ass'n.

Jenks,
The Whiskey
Trust.

Moody,
Trusts,
485-489.

U. S. Census,
1900, VII,
lxxv-lxxxi.

Sammis,
Industrial
Combination.

Lanier,
One Trust,
etc.

Commercial
and
Financial
Chronicle,
78: 68-69,
72-74.

Moody,
Trusts,
478-482.

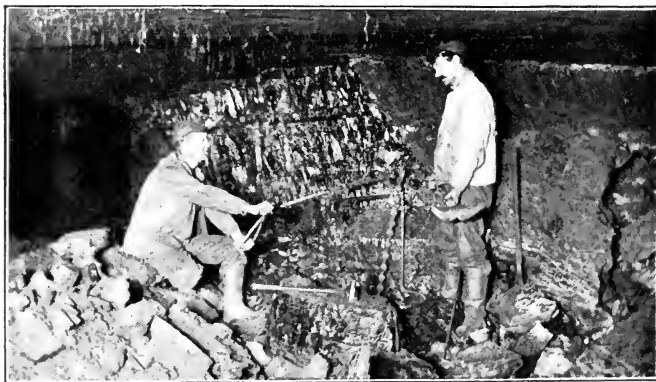
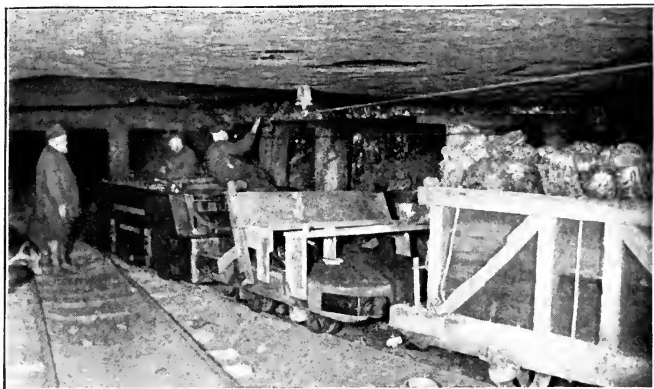
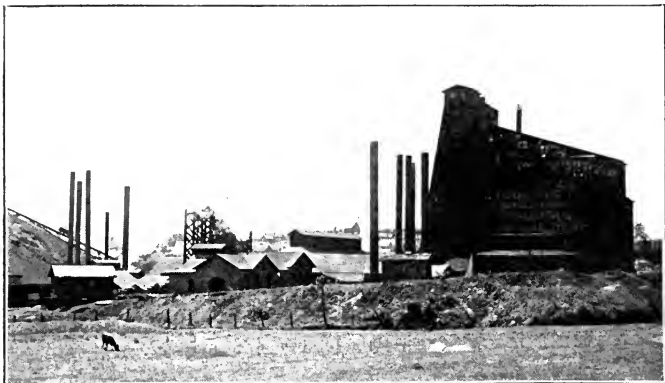
Montague,
Trusts of
To-Day,
Ch. III.

Rept. Indust.
Com.,
I, 39-57,
74-93, 199-
205; XIII,
lviii-lxiv.

whiskey distillers, the principal manufacturers of tobacco, salt, steel, tin plate, etc., pooled their interests in more or less successful combinations. Most of the industries requiring large capital, and affording opportunity for monopoly of output or raw material, attempted to organize on a noncompetitive basis during the last decade of the nineteenth century. Some three hundred different industries, representing a capitalization of \$7,246,000,000, were so organized under corporate charters during this period. Faith in the efficiency of combination reached its climax in the years from 1898 to 1902, when industrial alliances were formed with small regard for legitimate basis of profits. Promoters and speculators took advantage of the craze for combination, and foisted all manner of dubious and fraudulent schemes upon the investing public. A general awakening to the possibilities of failure characterized the dawn of the twentieth century. The collapse of the United States Shipbuilding Company revealed the opportunities for fraud and speculation inherent in trust financing, and contributed directly to the public disillusionment. In the summer of 1903 the stock market broke down under the accumulated burden of doubtful securities. The reaction involved hundreds of speculators in ruin. More than one hundred leading industrials were under suspicion. The market quotations, even for such stocks as the United Steel Corporation, shrank by one third. The average decline in the market value of railroad and industrial securities was estimated at 43.4 per cent; the total shrinkage amounted to \$1,754,000,000.

Meantime, the outside public has found reason to complain of the effects of industrial monopoly. Consumers protest against an advance in prices inconsistent with diminished cost of production and not warranted by improved quality of the goods. The whiskey trust, the plate glass combination, and the wire nail pool, for example, each has utilized its temporary monopoly of the market as an opportunity to force prices far beyond their normal level. The producer of raw material, the crude oil men, the cattlemen, etc., are helpless when they have no choice but to sell to the agent





THE ANTHRACITE COAL MINERS

of a combination, and they denounce the monopoly that reduces their returns to the bare cost of production. Laborers, brought face to face with a combination, can have no recourse to another employer. They are driven to organize a counter combination, equally monopolistic, and to attempt to win fair terms by an artificial shortage in the labor supply. The strike of the Amalgamated Association of Iron and Steel Workers against the United States Steel Corporation is a case in point. The endeavor of the men to secure the union scale of wages in all the plants represented in the combination failed because they had a strike fund of but \$32,000 to oppose to the resources of a billion-dollar trust. The Anthracite Coal Syndicate has been more successfully opposed by the United Mine Workers, an organized body of 145,000 men. In two successive strikes (1900 and 1902) they have secured an advance of wages for master miners, reduction of hours for day laborers, and the practical recognition of the justice of collective bargaining.

The independent producers, moreover, both the large concerns that refused to enter the combination and the small industries that were weak enough to be ignored, have fared badly at the hands of the monopolies. The power to regulate prices has been used to drive competitors from both central and local markets. The wreck of such enterprises has meant the closing of plants, the disemployment of workmen, and the waste of entrepreneur ability. The vehement criticism of the Standard Oil Company, occasioned by the unsparing and unscrupulous zeal with which independent refiners were cleared from the field, provoked the endeavor to prevent industrial monopoly by state interference.

Anti-trust Legislation.—Public protest first took the form of prohibitive legislation. During the years 1889 to 1894, twenty-five states and territories enacted laws making the trust unlawful, and the Federal law of 1891 declared "every contract, combination in the form of a trust or otherwise, or conspiracy, in restraint of trade or commerce among the several states" illegal and its promoters punishable by fine or imprisonment. The Standard Oil Trust dissolved into twenty

Edgerton,
Wire-Nail
Ass'n.
Rept. on the
Beef In-
dustry,
Ch. IV.

Rept. Indust.
Com.,
I, 136-143.

Jenks,
The Trust
Problem,
Ch. IX.

Wright,
The Amal-
gamated
Ass'n.
Rept. on the
Anthracite
Coal Strike,
1902.

Roberts,
Anthracite
Coal Indus-
try, 183-191.

Lloyd,
Wealth vs.
Common-
wealth.

Jenks,
The Trust
Problem,
Ch. XI.

Sherman, II,
1071-1076.

Rept. Indust.
Com., II.

Bills and
Debates
relating to
Trusts.

Montague,
Trusts of
To-day,
Ch. V, VI.

Griffin,
List of Ref-
erences
Relating to
Trusts.

Montague,
Trusts of
To-Day,
162-174.

Jenks,
The Trust
Problem,
Ch. XIII.

Knox,
The
Sherman
Anti-Trust
Act.

Whitney,
The Addy-
ston Pipe
Co.

distinct companies, but, since a majority of the stock of each company was held by one or another of the original trustees identity of interest was perpetuated. The Sugar Trust reorganized as the American Sugar Refining Company, a mammoth corporation of \$50,000,000, which bought in the stock of the constituent companies. The Whiskey Trust reorganized as the Distilling and Cattlefeeding Company, a single corporation with a capital of \$35,000,000, etc., etc. In every case combination was quite as effective under the new form.

The general endeavor to impose stringent requirements in the way of corporate limitations has been negated by the indulgent policy of certain states, — New Jersey, Delaware, and West Virginia. Light incorporation fees and taxes, the absence of specifications as to character of business or amount of capital stock, the secrecy possible under lax administration, have rendered these three states an asylum for monopolistic corporations. Ninety-five per cent of existing corporations hold charters in one or another of these jurisdictions. A company incorporated in one state of the Union is at liberty to carry its products into every other state; hence nothing short of a Federal incorporation law can prevent injurious combinations.

The effort to penalize restraint of trade has been more successful. Contracts aiming to curtail production or to fix buying or selling prices violate the common law and are non-enforceable. Statutes defining this offense and affixing pains and penalties have been passed by some thirty states but the transaction usually transcends state jurisdiction. Under the Federal Anti-Trust Act, "every person who shall monopolize or attempt to monopolize . . . any part of the trade or commerce among the several states" is deemed guilty of a misdemeanor and liable to fine or imprisonment; the goods in course of transportation are forfeited, and the injured party may recover threefold damages and the cost of suit. The attorney-general and the United States district attorneys are authorized to institute proceedings against unlawful combinations in restraint of trade. Most notable of the anti-monopolistic decisions are those against the

Addyston Pipe Company, the Northern Securities Company, and the beef packers' combination.

Harlan,
Decision of
the Supreme
Court of the
U. S.

The Bureau of Corporations, established (1903) under the United States Department of Commerce and Labor, is authorized to make "diligent investigation into the organization, conduct, and management of the business of any corporation, joint stock company, or corporate combination engaged in commerce among the several states, . . . and to gather such information and data as will enable the President of the United States to make recommendations to Congress for legislation for the regulation of such commerce." The immediate outcome of this provision is the Report on the Beef Industry.

The Organization of Labor

The Noble Order of the Knights of Labor was founded in 1869 by a group of Philadelphia garment cutters in the hope of uniting all wage-earners into one catholic body, without regard to occupation, sex, creed, color, or nationality. Not until 1881, however, when the pledge of secrecy was set aside, did the society attain national importance. The membership in 1886 was 500,000, in 1881, 1,200,000. The objects proposed by this all-embracing organization were the reduction of the hours of labor to eight per day, the securing of protective legislation for laborers in factory, mine, and workshop, the recognition of employers' liability for accidents, a weekly pay day, the making of wages a first lien on product, the arbitration of labor disputes, the establishment of state and national labor bureaus, the single tax on land, etc. The degradation of American workingmen by the employment of convicts in competition with free labor, and by the importation of laborers under wage contract, was protested as vigorously as was the slave system by a former generation of reformers. In its motto, "An injury to one is the concern of all," and in its appeal to the ballot for redress of wrongs, the Knights of Labor may be compared to the Workingmen's party. Their organization, by local, dis-

Wright,
Hist. Sketch
of the
Knights of
Labor.

Wright,
Indust. Evol.
of U. S.,
Ch. XIX.
McNeill,
Ch. XV.
Powderly,
Ch. IV, V,
VI, XIII.

Rept. Indust.
Com. III.

Levasseur,
American
Workman,
197-203.

Powderly,
Ch. VII.
Rept. Indust.
Com.,
VII, Pt. I,
67-87.
Rept. Ford
Committee
on Contract
Labor,
1888.

Taussig,
The South-
western
Strike.

Rept. Indust.
Com.,
VII, Pt. I,
109-110.

Wright,
Indust. Evol.
of U. S.,
Ch. XX.

Rept. Indust.
Com.,
VII, Pt. I,
108-109,
Pt. II, 420-
440.

Levasseur,
203-211.

trict, and general assemblies was, however, more effective than that of any previous labor movement, since it admitted representative government. The Knights did not inaugurate a new political party, but voted with Republicans or Democrats or Populists, as men and measures might determine. They attained considerable influence with legislative bodies. The establishment of the United States Department of Labor and of several state bureaus of arbitration, legislation restricting the labor of women and children and requiring bi-weekly payment of wages, the Federal laws prohibiting the importation of contract labor and limiting the immigration of Chinese, were in good measure due to the agitation carried on by the Knights of Labor.

While their characteristic method was legislation, the Knights did not abjure coercion. Several strikes were conducted to a successful finish by aid of a tax levied on the whole membership. The disastrous strike of the employees of the Missouri Pacific Railroad (1886) greatly discredited the order in the eyes of the public and gave rise to internal dissensions that undermined its strength. In 1896 the Knights of Labor joined in the agitation for free coinage of silver. The failure of the Democratic party farther weakened the order. Its membership has declined to but a fraction of its former strength.

The American Federation of Labor originated in a combination of already existing unions, such as the International Typographical, the Iron and Steel Workers, the Cigar Makers, the Brotherhood of Carpenters and Joiners, the Brotherhood of Locomotive Engineers, etc. In 1881, the year of its origin, the American Federation of Labor represented 262,000 wage earners; in 1886 the membership was 316,000; in 1887, 600,000. At last account the membership exceeded one million men. In distinction from the Knights of Labor, the American Federation encourages organization along trade lines. It is an affiliation of national unions in which each society retains full autonomy. The annual conventions and the Executive Council make general regulations and recommendations, but these have

no binding authority over the individual trade organizations. In case a strike is approved by the Executive Council, financial aid may be ordered and the federated unions assessed for a limited period. The possibility that aid may be withheld has usually served to deter the unions from undertaking unwarranted strikes. The influence of the Executive Council and of President Gompers has been generally conservative. The American Federation has consistently avoided political complications, refusing to declare for or against single tax, free coinage of silver, etc., and refraining from any attempt to influence its members. The leaders have held to the declared purpose of the organization "to render employment and the means of subsistence less precarious by securing to the toilers an equitable share of the fruits of their toil."

Strike Statistics. — One of the first undertakings of the United States Commissioner of Labor was the collection of accurate information concerning the causes and results of all the strikes that had occurred in course of the nineteenth century. The report of 1887, extended in 1894 and 1901, gives full statistical data for the years from 1881 to 1900.

Sixteenth
Annual Rept.
Commis-
sioner of
Labor, Ch. I.

STRIKE STATISTICS, 1881-1900

YEAR	NUMBER	PROPORTION SUCCESSFUL	YEAR	NUMBER	PROPORTION SUCCESSFUL
		Per Cent			Per Cent
1881	451	61.37	1891	1,717	37.88
1882	454	53.59	1892	1,298	39.31
1883	478	58.17	1893	1,305	50.86
1884	443	51.50	1894	1,349	38.09
1885	645	52.80	1895	1,215	55.24
1886	1,432	34.45	1896	1,026	59.19
1887	1,436	45.64	1897	1,078	57.31
1888	906	52.22	1898	1,056	64.19
1889	1,075	46.49	1899	1,797	73.24
1890	1,833	52.65	1900	1,779	46.43

Levasseur,
232-237.

During the twenty-year period there were reported 22,793 strikes, involving 6,105,694 employees, doubtless a much larger quota than any previous period could show, were full data available. It is significant that strikes characterize the years of business prosperity, *e.g.* 1889-1891 and 1899-1900. The larger number of lockouts, on the other hand, took place in years of depression, *e.g.* 1886 and 1893.

The proposition that strikes are likely to succeed on a rising and fail on a falling market may be demonstrated from these data. The proportion of successful strikes was 57 per cent for the boom period 1881-1883. For the highly prosperous epoch, 1896-1900, the successful strikes were 60 per cent of the total. In the years of depression following on financial panic there is, on the other hand, a notable shrinkage in the proportion of successes. The figures show, further, an apparent increase in the chances of success. Of the 1500 strikes recorded for the first eighty years of the nineteenth century, the results are known for 1053. Of these, 30 per cent were successful, 15 per cent were compromised, and 55 per cent were unsuccessful. Of 3902 strikes occurring from 1881 to 1886, 46.5 per cent were successful, 13 per cent were partially successful, and 40 per cent failed. For the twenty-year period above cited, 51 per cent were successful, 13 per cent partially so, and 36 per cent failed.

Casson,
Organized
Self-help.

Foster,
Trade Union
Ideals.

With experience and the sense of enlarged responsibility trade unions have learned caution. A well-disciplined union will undertake a strike only when success is reasonably sure. The money cost of a strike is usually greater for the men than for the employer. The loss in wages by strikes for the period 1881-1900 was \$258,000,000, more than twice the losses accruing to employers. The assistance rendered by other labor organizations during the same period amounted to \$16,000,000. The trade union with no strike fund has slight endurance. The treasury of even well-established organizations is quickly exhausted, and contributions from outside sympathizers are not a permanent reliance. The employer, on the other hand, has, in these days of combination, a large reserve capital; and, while he will avoid

Rept. U. S.
Strike Com-
mission,
1894.

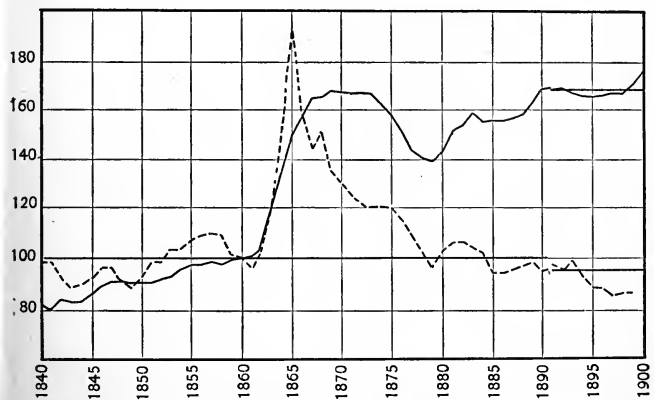
Wright,
The Chicago
Strike.

strike and the losses and embarrassments in the way of unfilled orders, etc., whenever possible, the controversy, once brought to an issue, will be fought to a finish. The Pullman strike demonstrated that employer as well as employee will take heavy risks in defense of a cherished principle.

Where intelligence and fairness characterize both employer and employed, the collective bargain is advantageous to

Schloss,
Rept. of
Chicago
Strike Com-
mission.

George,
Coal Miners
Strike, 1897.



Wages and Prices Prevailing in the United States, 1840-1900

————— Wages - - - - - Prices

Base Line (1840-1891) for wages and prices, the average of 1860.

Base Line (1891-1900) for wages, the average of 1891; for prices, the average of 1890-1892.

Currency Quotations 1860-1879 reduced to equivalent in Gold.

both parties. Since the settlement of the strike of 1897, delegates of the bituminous coal miners have met the operators in annual conference for the adjustment of a wage scale affecting four hundred thousand men. As individuals the men are helpless. They can only treat on even terms with the large-scale employer when united in demanding uniform terms. The employer, on the other hand, has more security in dealing with an organized than with an unorganized body of men. It is essential to the success of the collective bargain that the terms of em-

Rept. Indust.
Com.,
VII, Pt. I,
106-108,
Pt. II, 820-
827.
See Index.
Brandeis
et al.,
Incorporation
of
Trades
Unions.

ployment be guaranteed by written contract, and that breach of agreement on either side be punishable by fine. The proposition to increase the responsibility of trade unions by legal incorporation has been urged as a means of providing for the enforcement of the labor contract.

Criticism of Trade Union Methods. — Aside from the inevitable antagonism of interest between employer and employed, opposition to labor organizations arises from certain of the means used in prosecuting their ends that bring them into conflict with outside parties. Hostility to strike breakers, for example, has frequently taken the form of persecution, belligerent picketing, and bodily violence. Injury wrought to person or property serves to bring the union under condemnation of public opinion and of the law. Order is restored by police authority, and, when this fails, by the intervention of state and even national troops. Breach of the law on the part of employers is equally to be condemned. The employment of Pinkerton men as a private police force has been declared a penal offense by several state legislatures.

The boycotting of obdurate employers, "scab laborers," and nonsympathizers who patronize boycotted concerns is the frequent resort of a striking union hard bested. This is a dangerous weapon, since it alienates public sympathy and may involve the union in legal controversies. The writ of injunction has been utilized by employers to forestall attacks on person or property. This is sometimes the only means of maintaining peace, as in the case of the Cœur d'Alene miners' strike; but this again is a weapon that is likely to infringe on the rights of citizens.

The sympathetic strike is another form of trade union tactics, the fairness of which is hotly disputed. Without grievance of its own or any hope of gain, a labor union may order a strike in support of the contention of an allied organization. The fact that this may be an act of self-sacrifice performed in the interest of brotherhood and the general welfare of labor does not mitigate the injustice to the employer, who is involved in a controversy in which he

Stimson,
Handbook
to Labor
Laws of
U. S.,
Ch. VIII.
Mitchell,
Organized
Labor,
272-337.
Levasseur,
240-250.

Taussig,
The Home-
stead Strike.
Bemis,
The Home-
stead Strike.
Stimson,
Ch. IX.
Mitchell,
Organized
Labor,
Ch. XXXVII.

Hall,
Sympathetic
Strikes and
Lockouts.

has no concern, the arbitrament of which he cannot influence. Thus the American Railway Union struck in sympathy with the Pullman Car Company's employees and involved the traffic of Chicago and the Middle West in a disastrous tie-up. Thus the Chicago Teamsters Union refused to carry goods for a mercantile establishment involved in a Garment Workers' strike, and, by consequence, for the business houses that had dealings with the boycotted firm. The failure of these protracted struggles must tend to convince labor leaders that the sympathetic strike should only be undertaken as a last resort.

The right or wrong of the union or closed shop has been vigorously debated in the past two years. A fully established labor organization will always endeavor to exclude nonunion men from the shops under its control. This policy is essential to the labor monopoly on which the union depends for the enforcement of the uniform wage and other regulations; but it is protested by the employer on the ground that the management of his business is thereby taken out of his hands. Only when, as in the case of the cigar workers, the union is able to offer as offset a trade label that has market value, is the point readily conceded. The closed shop is said to be un-American and undemocratic, in that it forces workmen to enter the union in order to obtain employment; but the trade unionist holds that a man has no right to enjoy the advantages in the way of higher wages and shorter hours secured by union effort who will contribute nothing to the funds and fighting strength of the organization. The sewing trades are peculiarly liable to incur defeat at the hands of nonunion labor, because theirs is an unskilled trade, perennially overwhelmed by immigrant laborers accustomed to a low standard of living and ready to work for any pay. In spite of the persistent endeavor of many years, the Garment Workers have not yet attained general victory for the union shop and the union label.

Employers' Associations. — An inevitable consequence of the more efficient organization of labor has been the combination of employers into a defensive alliance. The first

Levasseur,
237-240,
250-257.

Yarros,
Labor Questions' Newer Aspects.

Commons
et al.,
Union Shop Policy.

Levasseur,
215-217.

White,
The Union Shop.

Pfahler,
Free Shops.

Rept. Indust.
Com.,
VII, Pt. II,

715-722.
See Index.

Brooks,
The Trade Union Label.

Rept. Indust.
Com.,
VII, Pt. I,
181-189,
Index to
Pt. II.

Rept. Indust.
Com.,
VII, Pt. II,
828-873.

Andrews,
Development
of Employers'
Associations.

Luther,
Workingmen
of New
England, 7.

Levasseur,
217-224.

labor union attempted in Boston brought about (1825) a union of Boston merchants, who pledged themselves to "drive the shipwrights, caulkers, and gravers to submission or starvation," and pledged \$20,000 as a fighting fund. In 1832 one hundred and six merchants and shipowners of Boston agreed to "discountenance and check the unlawful combination formed to control the freedom of individuals as to the hours of labor." In 1872 four hundred employers of New York City organized to resist the ten hour movement, agreeing to contribute \$1000 each to the defense fund. In 1884 the Master Builders Association of New York was organized to resist a bricklayers' strike. A dozen or more national associations of the employers of the various trades were set on foot in the last quarter of the nineteenth century. In 1903 several national associations united to form the Citizens Industrial Association of America. It comprises sixty national and three hundred and thirty-five local organizations. The objects of this federation of employers' unions, as published, are to assist the constituted authorities in the maintenance of order, to promote and encourage harmonious relations between employers and employees on a basis of equal justice to both, to assist employers in their efforts to maintain industrial peace, and to create a public sentiment in opposition to all forms of violence, coercion, and intimidation. The Citizens Industrial Association does not deny the beneficent possibilities of labor organization nor the advantages of arbitration and collective bargaining, but proposes to combat the abuses of trade unionism as represented in arbitrary and violent action.

Immigration

The tide of immigration was steadily rising during the period under review. With exception of the three epochs of business depression, the average annual accessions to population on this account approximated five hundred thousand. The number of arrivals during the last three decades of the nineteenth century amounted to 11,746,000, a sum





SLAVIC IMMIGRANTS

which exceeds the immigration figures for the fifty years previous. During the first five years of the twentieth century, the annual inflow has steadily increased from 448,000 in 1900 to one million odd — the high-water mark — in 1905.

A notable change in the character of the immigrants has taken place in the past fifteen years. Immigration from Great Britain, Ireland, and Germany has fallen off, that from Norway and Sweden has not increased, while the surplus population of eastern Europe has been migrating to the United States in ever-increasing numbers. The peasants of Italy, Hungary, Austria, Lithuania, Roumania, Russia — unhappy lands where wages are low and taxes high, and where land ownership is not within the reach of the poor — throng the steerage quarters of the transatlantic steamers and the immigrant stations of the United States ports. The immigration from southern and eastern Europe in 1904 made up seventy per cent of the total European for that year.

These late comers bring little money in their pockets, and fully half of them are illiterate. The majority are unskilled laborers. The more enterprising find their way to the factories of New England, to the mines and iron works of Pennsylvania and Colorado, to the farms and flour mills and abattoirs of the upper Mississippi Valley. The Russian Jews, the Syrians, the Italians, and the Greeks settle down at the ports of entry — New York and Boston — or are dropped at the railway terminals, — Cleveland, Pittsburg, Chicago, and St. Louis. Only a small proportion of European immigrants reach the Southern states. But three per cent of those coming in 1904 were destined for the South Atlantic section, and but one per cent for the South Central. The presence of four million negro laborers serves to discourage immigration. The freedmen are still the labor reliance of the South. Whether wage earners, tenants, or land owners, they are producing the major part of the cotton, tobacco, rice, and sugar crops to-day. No less eager than the immigrants to possess themselves of land, the negroes are rapidly becoming a race of peasant farmers. In the forty years since emancipation, the freedmen of Virginia have

Report of the
Commis-
sioner of
Immigration,
1903.

Wright,
Influence of
Trade
Unions on
Immigrants.

Coman, The
Negro as a
Peasant
Farmer.

Dubois,
Negroes in
the United
States,
65-98.

Kelsey,
Evolution
of Negro
Labor.

U. S. Census,
1900.
V, xciii-cxx.
Statistical
Atlas,
Plates 55, 62.

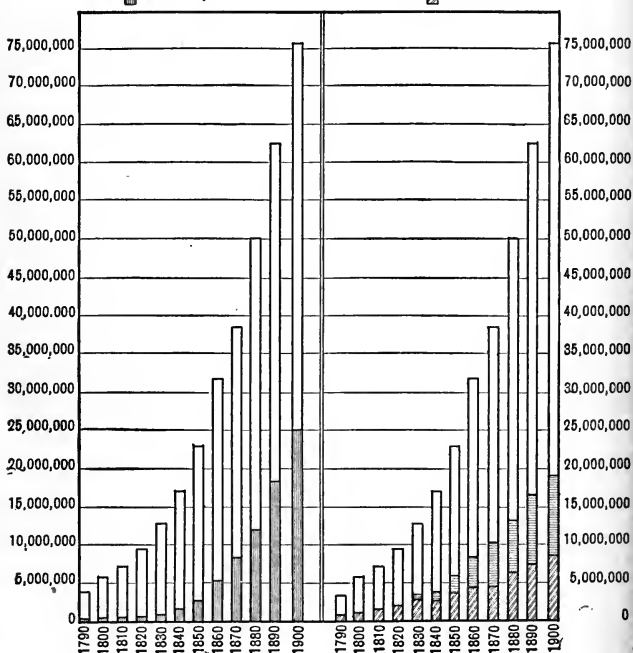
acquired 993,500 acres, those of Georgia 1,075,000. One-fourth the colored farmers of the United States now own the land they till. In the Far West, Chinese and Japanese laborers have largely preëmpted the field. Only six per

**Total population of the
UNITED STATES.
by decades (1790 - 1900)
according to residence.**

Country
Urban

**Total population of the
UNITED STATES.
by decades (1790 - 1900)
according to color and nativity**

Native White
Foreign White
Colored.



cent of the immigrants arriving in 1904 indicated an intention of going out to the Cordilleran or Pacific coast states.

Derived for the most part from lands where rate of wages and standard of living are usually much less than in the United

States, these immigrants come into direct competition with American laborers. Machinery and differentiation of mechanical processes render it easy to learn a trade. In a few weeks or months the newcomer has acquired as much skill as the old hand, and, since he will work for less money, is likely to supersede him. The sweat shops of New York, Rochester, and Chicago are filled with Italians and Russian Jews; the anthracite coal mines are worked by Slavs and Italians; Bohemians are tilling the corn lands of Kansas; Swedes are taking up the wheat farms of Minnesota and the Dakotas. These European peasants have performed the tasks that were too heavy or unpleasant or low-paid to attract American workmen. They have built our railroads, developed our mines, manned our coke ovens and iron foundries, cleared the forests, tilled the prairies. They are contributing enormously to the exploitation of the resources of the country. How to leave them free to do this, without entailing some degradation of the American standard of living, is the economic phase of the immigration problem.

Legislation.—The military requisitions of the Civil War drained the country of laborers. The agricultural districts needed farm hands, the factory towns operatives. Under the Act to Encourage Immigration approved July 4, 1864, the agents of American employers were allowed to engage laborers in foreign lands and to arrange for their transportation to this country. The contract pledging wages in payment of charges was declared valid in law, and therefore enforceable. Under this arrangement, thousands of Italians, Poles, and Hungarians were imported for work on the railroads and in the mines and factories of the Northern states. Abortive efforts were even made to ship laborers to the cotton fields of the South.

The hospitable attitude of the public was converted to suspicion and alarm as the social, political, and industrial effects of unregulated immigration became apparent. The Act of 1864 was repealed in 1868; in 1875 the importation of coolies was forbidden. The Passengers Act of 1882 excluded "convicts, lunatics, idiots, or any person unable

Rept.
Chandler
Com. on
Immigra-
tions.
*52d Cong.,
2d Session,
Rept. No.
1333.*

Coman,
Contract
Labor in the
Hawaiian
Islands.

Smith,
Emigration
and Immi-
gration,
Ch. XII.

Rept. Ford
Committee
on Contract
Labor.

50th Cong.,
1st Session,
Misc. Doc.
No. 572.

Rept. Indust.
Com.,
XV, 647-671.

Powderly,
Ch. X.

Rept. Indust.
Com.
XV, 430-446.

The Italians
in Chicago.

Smith,
Emigration
and Immi-
gration,
Ch. XI.

to care for himself or herself without becoming a public charge," and did much to relieve our prisons, asylums, and poorhouses of an undue burden. It did not, however, attempt to prevent the degradation of our economic standards by the competition of employees engaged abroad to work at European wages. The agitation against contract labor undertaken by the Knights of Labor and other trade unions came to a head in 1885. The Alien Contract Labor Law rendered it unlawful for an employer to prepay passage or in any way to assist or encourage the immigration of foreign laborers under wage contract. The enforcement of this law has been attended with considerable difficulty. Some eight thousand laborers were excluded between 1890 and 1900. It is probable that rigid inspection of immigrants on this account prevents the negotiation of many such contracts, but it does not materially check the importation of laborers under the infamous *padrone* system. Thousands of Italians, Greeks, and Syrians come to this country under binding obligation to men of their own race, who prepay their passage and, under various pretexts, farm out their labor, collecting a percentage of the wages paid. This form of peonage is difficult to discover and to punish.

On the Pacific coast, agitation against the degrading influence of alien laborers has been directed against the Chinese. The 233,000 Chinamen admitted to California between 1848 and 1876 had performed all the rough work of the pioneer period, but their diligence, thrift, and industrial skill rendered them dangerous competitors, and the immorality inevitable under the abnormal conditions of a coolie's life was a social menace. Unable under constitutional and treaty limitations to rid their state of the dreaded Celestials, the Californians appealed to the Federal authorities. A joint committee of Senate and House investigated the situation in 1876 and recommended that Congress legislate "to restrain the great influx of Asiatics to this country." Not, however, until 1882, when modification of the treaty with China made such action legitimate, was a law passed suspending the immigration of Chinese laborers for a period of ten years. The Exclusion



SUGAR PLANTATION IN HAWAIIAN ISLANDS

Japanese laborers.



Act was subsequently extended to 1902 and reënacted at that date. The severe enforcement of the provision that a Chinese laborer who leaves the country is thereafter debarred has called out protests from the government of China and roused an organized effort on the part of the great commercial companies to exclude American goods from Chinese markets. Sales of cotton cloth to China, our most important foreign purchaser, shrank from \$16,000,000 in 1902 to \$4,000,000 in 1904. Some modification of the law is urged by the textile interests of the East and South as well as by the grain-dealers of the Pacific coast.

Rept. Indust.
Com.,
XV, 747-759.

The number of Chinamen now resident in the United States is but 82,000. Their place in the labor supply of the Pacific coast is being taken by the Japanese. There were 25,000 Japanese in the United States in 1900, and they have come over at the rate of 13,000 a year in the past five years. Eighty per cent of these men are agricultural laborers. They come under contract to immigration companies made responsible by the Mikado's government for their safe transportation and subsequent welfare. They, too, are thrifty and industrious and are accustomed to earning but one tenth of the wages paid to American laborers of corresponding skill. Exclusion of these new competitors cannot be so readily undertaken or enforced, because the Japanese government is stronger than the Chinese and is able and ready to guarantee to its citizens the liberties allowed to any European people.

Rept. Indust.
Com.,
XV, 757.



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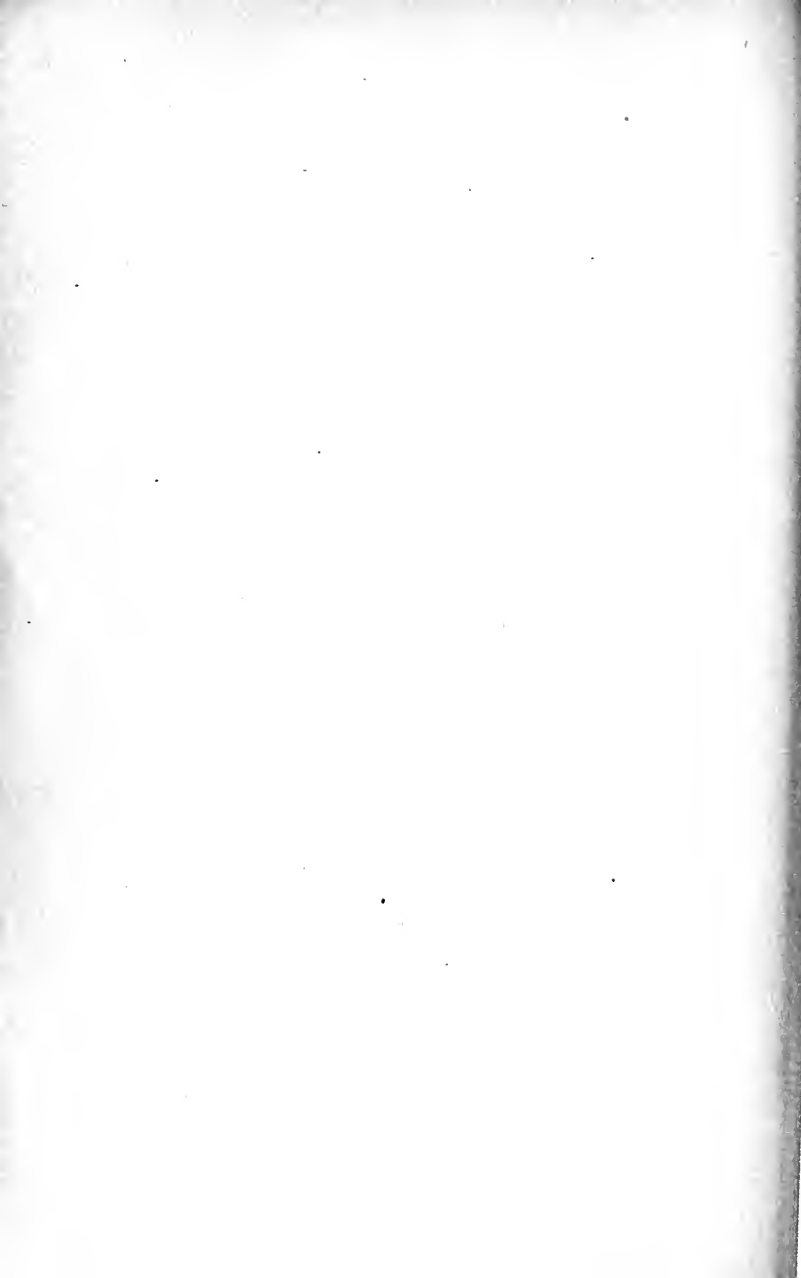
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